

306
Au 7

20p.2

Duplicate Collection
University of Illinois Library

Vol. 28.]

1918.

[No. 12.

Tuesday, 9th April.

[Registered at the General Post Office, Melbourne, for transmission by post as a newspaper.]

THE
Australian Official Journal
of Patents.



Notices.

Applications Received, 6854 to 6974.
Commonwealth Proceedings.

PRICE (including postage):—Single Copy, 6d. Annual Subscription (including volume of Statistics and Indexes), 25s. Obtainable at the Government Printing Office, Melbourne.

By Authority:

ALBERT J. MULLETT, Government Printer, Melbourne.

C.4808.

War Savings Certificates

These are Government bonds, issued in denominations of £1, £5, £10, £50, £100, and £1,000

£0 17s. 6d.	will	buy	a	£1	Certificate
£4 7s. 6d.	„	„	„	£5	„
£8 15s.	„	„	„	£10	„
£43 15s.	„	„	„	£50	„
£87 10s.	„	„	„	£100	„
£875	„	„	„	£1,000	„

The Certificates are repayable at their face value three years from date of purchase, which is equal to $4\frac{1}{2}$ per cent. compound interest on the amount of the purchase money. In case of need, if a sufficient reason can be given, any bank will cash the Certificates, with 3 per cent. interest to the date of cashing.

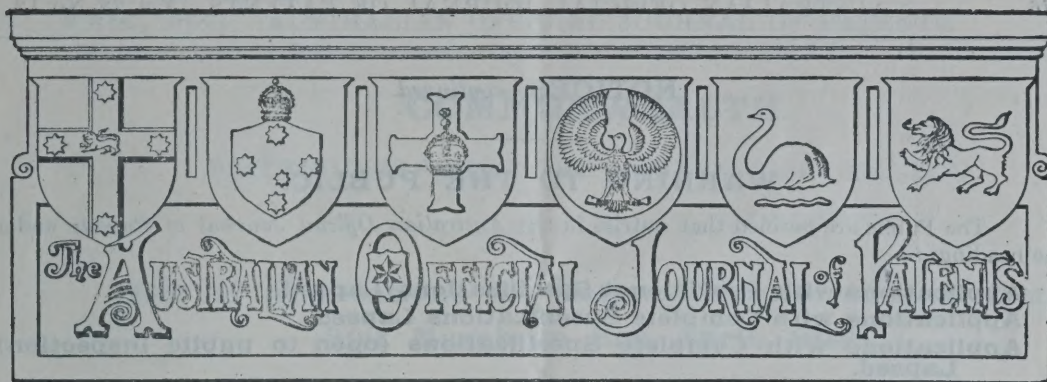
*You can buy Certificates at all Banks and Money Order Post Offices,
or you can join*

A War Savings Group

and by making regular subscriptions, obtain your Certificates from the Group's Trustee.

Further information may be obtained from—

The Secretary, Victorian War Savings Committee,
123 Queen Street, Melbourne.



[Registered at the General Post Office, Melbourne, for transmission by post as a newspaper.]

VOL. 28.]

9TH APRIL, 1918.

[No. 12.

All communications to be addressed to the Commissioner of Patents, Railway Buildings,
Melbourne, Victoria.

[The Department of Patents does not guarantee the accuracy of its publications, or
undertake any responsibility for errors or omissions or their consequences.]

CONTENTS.

Notices—	Page	Commonwealth—continued.	Page
Official Circulation	275	Specifications open to Public Inspection before Acceptance	286
Warning to the Public	276	Complete Specifications Accepted	287
Classification and Word Index, 1916	276	Illustrated Notes	288
Commonwealth—		Commonwealth Specifications	300
Applications Received	277	Letters Patent Sealed	301
Provisional Specifications Accepted	283	Agreement to Assign Letters Patent	303
Complete Specifications Lodged	284	Renewal Fees Paid	303
Applications with Provisional Specifications Lapsed, Abandoned, or Withdrawn	285	Patents Void through Non-payment of Renewal Fees	304
Application for Amendment	285		

NOTICES.

Official Circulation.

The *Australian Official Journal of Patents* is available for free public inspection at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses in Brisbane, Adelaide, Perth, and Hobart on the arrival of the first post after its publication at the Patent Office in Melbourne. Complete files are posted to Government Patent Offices in all parts of the world, and to a large number of Public Libraries and Technical Institutions in the principal cities of Australasia, Great Britain, Europe, America, Africa, and Asia. The *Journal* may also be inspected at the offices of many technical periodicals to which copies are sent in exchange.

NOTICES—continued.

WARNING TO THE PUBLIC.

The Public are notified that entries in the *Australian Official Journal of Patents* under the headings:—

Applications with Provisional Specifications Lapsed.

Applications with Complete Specifications Lapsed.

Applications with Complete Specifications (open to public inspection) Lapsed.

Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed.

Patents void through non-payment of Renewal Fees.

must not be accepted as final, as under Regulations 7 and 8 of the Patents (Temporary) Regulations 1914 the Minister or the Commissioner may in certain cases defined in the Regulations extend the time prescribed by the *Patents Act* 1903–1909 for doing any act or filing any document.

The Patent Office will furnish, on request accompanied by the prescribed search fee of One Shilling, definite information, so far as possible, as to the position of any particular Application or Patent.

Classification and Word Index, 1916.

A revised edition of the Classification of Manufactures and of the Word Index thereto is now ready and on sale at the Government Printing Office, Melbourne, price Two Shillings and sixpence, post free.

COMMONWEALTH.

PROCEEDINGS UNDER THE "PATENTS ACT 1903-1909."

**List of Applications for Letters Patent received from
21st March to 3rd April, 1918.**

The abbreviations "Prov." and "Comp." after the numbers indicate respectively that a Provisional or Complete Specification was lodged with the Application.

Thursday, 21st March.

6854. *Prov.* Arthur Frederick BROWNE—

"Improved means for digging and removing coal, metal, and the like from vessels, barges, yards, depots and the like."

6855. *Prov.* Aneas McDONALD and Samuel JOHNSON—

"An improved fumigator for the destruction of rabbits and other noxious vermin."

6856. *Comp.* George Matthew BRADLEY—

"Improvements in race starting machines."

6857. *Comp.* Hugh Stirling PATTERSON, jun.—

"Improvements in and relating to incubators."

6858. *Comp.* Cecil Romney Bickford FROST, *act. inv.*, and George THORNE, jun., *assignee*—

"Improvements in tandem-piston internal combustion engines."

6859. *Comp.* George James COLES—

"Improvements in and relating to means for automatically coupling the brake and other pipes of railway and like vehicles."

6860. William Herbert GRINSTED.

[Date applied for under International or Intercolonial Arrangements, 13th Mar., 1917, being date of application in Great Britain, Serial No. 3652/17.]

"Improvements relating to electric circuits linked by a relay or repeater."

6861. *Comp.* GENERAL ELECTRIC COMPANY, *assignee of* Frank William PEEK, jun., and Giuseppe FACCIOLI, *act. invs.*—

"Improvements in and relating to insulators."

6862. David BASCH.

[Date applied for under International or Intercolonial Arrangements, 3rd May, 1917, being date of application in United States of America, Serial No. 166,159/17.]

"Improvements in and relating to systems of distribution."

6863. *Prov.* Jack Richard CONDUIT—

"An improved machine for covering wire with cotton, silk, or the like."

6864. *Prov.* William Alfred HARRINGTON—

"Improvements in lawn mowers."

Friday, 22nd March.

6865. *Prov.* William James SANDERS—

"An improved cigarette case."

6866. *Prov.* ANTHONY HORDERN & SONS, LIMITED, *assignee of* Arthur William TOURNAY-HINDE, *act. inv.*—

"Improved draining valve for ice chests and other liquid receptacles."

6867. THE BIRMINGHAM SMALL ARMS COMPANY LIMITED, *assignee*, and George NORMAN, *act. inv.*

[Date applied for under International or Intercolonial Arrangements, 9th Mar., 1917, being date of application in Great Britain.]

"Improvements in and relating to mounts or stands for machine guns."

Applications received, 21st March to 3rd April—continued.6868. *Comp.* William Joseph DICKER—

“An improved water heater.”

6869. *Comp.* Ivar Walfrid CEDERBERG, Ph.D., *act. inv.*, Helge Mattias BÄCKSTRÖM and Gustaf Adolf KYHLBERGER, *assignees*—

“Process of producing ammonia.”

6870. *Comp.* Ivar Walfrid CEDERBERG, Ph.D., *act. inv.*, Helge Mattias BÄCKSTRÖM and Gustaf Adolf KYHLBERGER, *assignees*—

“Process of producing ammonia.”

6871. *Prov.* Frederick Earl BAILEY—

“A new cleansing compound and process for making same.”

6872. *Comp.* T. DAWSON & SONS LIMITED, *assignee of* John L. CLARK, *act. inv.*—

“Improvements in and relating to the tops of containers for permitting the shaking and pouring of material therefrom.”

6873. *Comp.* T. DAWSON & SONS LIMITED, *assignee of* David Miller DAWSON, *act. inv.*—

“An improved water heater.”

6874. *Prov.* Francis Isaac DUTCH, William Henry DUTCH, and John FRAME—

“An improved machine for harvesting peas.”

6875. Charles Stafford WAKEFIELD.

[Date applied for under International or Intercolonial Arrangements, 1st Feb., 1917. being date of application in Great Britain, No. 1621/17.]

“Improvements in temporary or portable buildings and the like.”

6876. *Prov.* TOOTH & Co. LIMITED, *assignee of* William COED, *act. inv.*—

“Improved fountain for retailing beverages.”

Saturday, 23rd March.6877. *Prov.* Frank Henry DUTTON—

“Improvements in connection with light railways.”

6878. *Prov.* Robert Blake MORROW—

“Improved propelling means for side car motor cycles.”

6879. *Prov.* Clement John LANGFORD, *assignee of* Ernest James WHITBY, *act. inv.*—

“Improvements in and relating to hinged-back chairs.”

6880. *Prov.* Henry DAVIS—

“An improved ice-chest.”

Monday, 25th March.6881. *Prov.* George Alfred JULIUS and Frederick Augustus WILKINSON—

“Improvements in machines for printing, issuing and recording fare and admission tickets.”

6882. *Prov.* Walter MORRISON—

“Improvements in protectors for the soles and heels of boots and shoes.”

6883. *Prov.* NOYES BROS. (SYDNEY) LIMITED, *assignee of* Ebenezer James McCLELLAN, *act. inv.*—

“Improvements in connection with the drying of plaster and like boards or plates.”

6884. *Prov.* Walter Reginald HUME—

“Further improvements in method of and means for manufacturing wire and rods.”

6885. *Prov.* Mabel GOULD—

“Improved skirt gauge and marker.”

6886. *Prov.* Adhémar Jean DE RAEVE—

“Recovery of wool fats called sometimes adeps-lanæ, yolk, suint, lanoline or degreas, from the suds or soap lies of wool scours or wool spinning mills.”

6887. *Comp.* Henry John VINNICOMBE—

“An improved draught equalizer.”

6888. *Prov.* John GRIFFITHS—

“Improvements in and relating to certain types of concrete mixing machines.”

Applications received, 21st March to 3rd April—continued.

6889. *Prov.* Roy William SANDFORD—
“Improvements in motor trucks.”
6890. *Prov.* Robert Hardy ADAM—
“Improvement in the manufacture of oil pastes from wet lead salts or precipitates.”
6891. *Prov.* William WHITELUM and David BELL, trading as ART OVERMANTEL & PICTURE FRAME CO.—
“Billiardettes.”
6892. *Prov.* John Henry DAVIES—
“Improvements in double chambered teat cups.”
6893. *Prov.* MAURI BROS. & THOMSON, LIMITED, assignee of Ivor John CARSON, act. inv.—
“Improvements in automatic regulators for air or gas compressors.”
- Tuesday, 26th March.**
6894. *Comp.* William John GEE—
“Variable speed gear and clutch.”
6895. *Prov.* John Wood NICHOLSON—
“Postal tag.”
6896. *Prov.* George ASHFORD—
“An improved non-slip attachment for wheels of vehicles.”
6897. *Prov.* Frederick Christian Werner KUSCHERT—
“Improvements in grain harvesters.”
6898. *Prov.* Henry BRADLEY—
“Means for disinfecting sanitary pans and the like.”
6899. *Comp.* James Clason GATES, assignee of Albert Edward SHIRLOW and Henry William HOARSE, act. invs.—
“Improved cutting mechanism specially applicable to paper and other tube machines.”
6900. *Prov.* Cecil Nesbitt ALLEN—
“Improvements relating to the directional control of torpedoes.”
6901. *Prov.* William Frederick FLOESSELL—
“Improvements in hook and eye fastenings.”
6902. *Prov.* Arthur A. O'NEILL—
“Crank drives applied to air gas machines.”
6903. *Prov.* Alfred Louis BROWN—
“Ratchet device for attachment to boring augers, post hole diggers and the like.”
6904. *Prov.* Ernest Williams CURRIE and Leslie Edwin McDONALD—
“Ticket holder.”
- Wednesday, 27th March.**
6905. *Prov.* Philip Hugo Cantrell SHAW, nominee of John Joslin CRUMP, act. inv.—
“Improvements in and relating to riddling apparatus for potato digging machines.”
6906. *Prov.* Albert Edward GOOCH—
“A variable pulley (for motor cycles).”
6907. *Comp.* MONOTYPE MACHINE (COLONIAL PATENTS) SYNDICATE, LIMITED, assignee of John Sellers BANCROFT and Amos Leslie KNIGHT, act. invs.—
“Improvements in or relating to moulds for the production of printers' strip material or elements for printing forms.”
6908. *Prov.* Ernest SCHULTZ—
“Improvements in and relating to self controlled aerial torpedoes or the like.”
6909. *Prov.* Willie Fred WATTS—
“Improvements in and relating to mail bag and other fasteners.”
6910. *Prov.* Henry BODEN—
“Improvements in or relating to shingles for roofs and walls.”

Applications received, 21st March to 3rd April—continued.

6911. *Comp.* John DAVIES, William Henry JONES, Joseph DAVIES, Henry James HALE, and Walter Trantom THORNE—

“Improvements in apparatus for making ice.”

6912. *Comp.* James GRANT and Herbert DAVY—

“An improved device for applying tyre covers to rims.”

6913. *Prov.* Thomas Joynes JORGENSEN—
“Improvements in rock drills.”

6914. *Prov.* THE BRITISH UNITED SHOE MACHINERY COMPANY OF AUSTRALIA PROPRIETARY LIMITED, *assignee* of Andrew Eppler, *act. inv.*—

“Improvements in or relating to shoe sewing machines.”

6915. *Prov.* Arthur George Lloyd NEIGHBOUR—

“Improvements in and relating to spraying apparatus.”

6916. *Prov.* Henry Edward Lockwood—

“Improvements in false combs for strippers, stripper harvesters, headers, reapers, thrashers and the like.”

6917. *Prov.* Henry Edward Lockwood—

“Improvements in draught attachment for strippers harvesters and the like.”

Thursday, 28th March.

6918. *Prov.* John McCUAIG—

“Washing board.”

6919. *Prov.* Catherine Mary CARO—

“Attachment for spinning suitable for any treadle sewing machine.”

6920. *Prov.* Rupert George BOARDMAN and John Theodore TAMBAKIS—

“The design of an improved container for cigarettes or other purposes.”

6921. *Prov.* James Mason KRUSS—

“Improved wire strainer and fastener.”

6922. *Prov.* Thomas Ernest LEASK and David Osborne BELL—

“An improved attachment for seats of motor cycles, bicycles, and the like.”

6923. *Prov.* George ANDREW—

“Improvements in flexible tyre motor car and other vehicle wheels.”

6924. *Prov.* GEORGE MUNRO, PROPRIETARY LIMITED—

“Improvements in elevators or conveyors.”

6925. *Prov.* Gordon Arthur MELVILLE, Annie O'DONNELL, and Louisa Maud GARNER, *assignees* of Richard GARNER, *act. inv.*—

“Apparatus for carburetting motor or other spirit or oil for power purposes.”

6926. *Comp.* Harry Robert NORTHOVER—

“Improvements in machines for filling the cartridge-magazines used in connection with the Lewis gun, applicable in part to machines for filling other cartridge-magazines or receptacles, cartridge-belts, strip-chargers, and the like.”

6927. *Comp.* AUTOMATIC ELECTRIC COMPANY, *assignee* of William W. OWEN, *act. inv.*—

“Improvements in or relating to measured service telephone systems.”

6928. *Comp.* AUTOMATIC ELECTRIC COMPANY, *assignee* of William W. OWEN, *act. inv.*—

“Improvements in or relating to measured service telephone systems.”

6929. Oscar JUNGREN—

[Date applied for under International or Intercolonial Arrangements, 17th Apr., 1917, being date of application in United States of America, Serial No. 162,701/17.]

“Improvements in and relating to elastic fluid turbines.”

Applications received, 21st March to 3rd April—continued.

6930. *Prov.* Edward Albert NOBLE—
 "Improved means for indicating the location of positions on maps plans and the like."
6931. *Prov.* Edward Albert NOBLE—
 "An improved device for coupling lengths of hose and the like."
6932. *Prov.* CYCLONE PROPRIETARY LIMITED, assignee of Adolph BEYER, act. inv.—
 "An improved gate latch."
6933. *Prov.* Walter Joseph CHERRY, act. inv., and Vere Locksley REEVE, assignee—
 "An improved device for indicating the lateral inclination of an aeroplane or the like during flight."
6934. *Prov.* Arthur Venning McDougall—
 "Fruit drying appliance."
6935. *Prov.* Charles HADLOW, William DAVENPORT, and William Edward DOWNING—
 "Improved spark arrester for locomotives."
6936. *Comp.* William Henry John WILLSON and William STOCKS—
 "An improved annular inner cover for reinforcing pneumatic motor tyres and for protecting the air tubes thereof against punctures and 'blow-outs.'"
6937. *Prov.* John Fitznichol BROWN—
 "An improved holder for use in connection with correspondence."
6938. *Prov.* Lionel FLIGHT—
 "Gelatine syringe."
- 29th and 30th March, and 1st and 2nd April.**
Public Holidays.
- Wednesday, 3rd April.**
6939. *Comp.* Louis MAUCLAIRE, André GARBARINI, and Georges GAUTIER—
 "Improvements relating to kinematography."
6940. *Prov.* Thomas Francis COGHLAN and Michael PURCELL—
 "Improved process for water proofing bark tanned leather."
6941. *Comp.* James FLUKER—
 "Improvements relating to fire extinguishers."
6942. *Prov.* Arthur Joseph HALL—
 "An appliance for attaching the gut to fishing lines."
6943. *Comp.* Herbert Ernest ROSS—
 "Glare preventing screen for automobile lamps."
6944. *Comp.* J. STONE & COMPANY LIMITED, assignee of Alfred Henry DARKER, act. inv.—
 "Improvements in and relating to the brush and terminal contact mechanism of dynamo electric machines."
6945. *Prov.* Edward Francis DOWNEY, assignee of Stefan ZUMKOWSKI, act. inv.—
 "Single delivery slide ejector magazine for matches."
6946. *Comp.* Harold Cecil GREENWOOD—
 "Improvements in the synthetic production of ammonia."
6947. *Comp.* Harold Cecil GREENWOOD—
 "Improvements in the synthetic production of ammonia."
6948. *Comp.* Harold Cecil GREENWOOD—
 "Improvements in the synthetic production of ammonia."
6949. *Comp.* Harold Cecil GREENWOOD—
 "Improved method of and apparatus for mixing compressed gases in definite proportions."
6950. *Comp.* Emile PIQUEREZ—
 "Improvements in or relating to lubricators."

Applications received, 21st March to 3rd April—continued.

6951. *Prov.* Albert MASON and Albert Edward BOWERS—

"Magnetic tray control for use in connection with biscuit making machinery."

6952. *Prov.* Archibald St. Clair CAMPBELL—

"Fly exterminator and sheep dip."

6953. *Comp.* Charles Ernest HALL—

"Improvements to trousers pressers and similar devices."

6954. *Prov.* Timothy Kelcee HEMMINGSON—

"An exhaustless steam engine."

6955. *Prov.* Oliver Cromwell ROBERTS and Frederick George PROSSER—

"A sheep and cattle dip."

6956. *Comp.* Charles RITCHIE, *act. inv.*, and James McLERNON, *assignee*—

"Improved means for intercepting and running off the first water that flows from a roof during a shower."

6957. *Prov.* William Peter SIMPSON—

"Improved harness for agricultural implements."

6958. *Prov.* Frederick LUKE—

"Improvements in and connected with the economizing of hydrocarbon engine fuel."

6959. *Prov.* Charles Thomas COUNSELL—

"Improved receptacle for containing and discharging pastes and other semi liquid or plastic substances."

6960. *Prov.* Louise CHALMERS, *assignee* of John CHALMERS, *act. inv.*—

"Improvements in the spring suspension of motor vehicles."

6961. *Prov.* Mortimer Edward LAWRENCE—

"Horse collar."

6962. *Prov.* William James ADNAMS, Christen Knudsen PETERSEN, and Charles William PARSLow—

"Improvements in level indicators for aeroplanes and the like."

6963. *Prov.* Charles Daniel TOOLIN—

"An improved preparation for neutralizing the effects of nicotine."

6964. *Comp.* TOLEDO SCALE COMPANY, *assignee* of Clarence H. HAPGOOD and Samuel N. HURT, *act. invs.*—

"Improvements in or relating to weighing scales."

6965. *Prov.* Cayley Gore ROBINSON—

"An improved weeding tool."

6966. *Prov.* John MUIR and Richard FEASEY—

"An improved fastener for doors, gates and the like."

6967. *Prov.* George Herbert STONE—

"An improved grubber."

6968. *Prov.* William Meyrick JOLLEY—

"Improvements in and connected with haulage clips for skips or trucks."

6969. *Comp.* Charles CHAMBERS, *communicatee* of David CHAMBERS, *act. inv.*—

"Improvements in and relating to the preservation of fruit and vegetables."

6970. *Prov.* Francis Walter BASSETT—

"Improved support for the arch of the foot in a boot or shoe."

6971. *Comp.* William COACKLEY—

"Improved fittings for roof structures."

6972. *Comp.* Hu PU—

"Improvements in tin cans."

6973. *Comp.* Charles GARDNER—

"Improvements in railway cross attachments."

6974. *Prov.* John Andrew EASTON—

"An improved handle for cans and the like."

Provisional Specifications Accepted.

Names in parentheses indicate actual inventors, &c., who are not applicants
Italics indicate that some amendment has been made.

1917.

5644. Gay, J. B. Repairing pneumatic tyres.
 5798. Monkhouse, W. I. *A hand operated machine for forming the ends of wire so that they can be easily joined.*
 5848. Mikkelsen, N. J. *A device for supplying water vapor from an automobile radiator to the carburettor.*
 5876. Llewellyn, J. L. *A rotary muffler for internal combustion engines.*
 5947. Monkhouse, W. I. Wire joints.
 6089. Murnane, C. Internal combustion engines.
 6113. Anderson, J. T. Nail and spike extractor.
 6141. McDonald, A. *An improved method of manufacturing brooms brushes and the like.*

1918.

6303. Newling, W. J. *Apparatus for producing wet weather conditions upon the brakes of driven vehicles.*
 6331. Stamp, T. *Rasleigh. A revoluble tray for table use.*
 6375. Blake, E. E. & H. W., & Hilbert, J. H. Emergency tool kit.
 6390. Moss, A. Foundry moulding apparatus.
 6436. Jensen, S. C. Recoil-operated fire-arms.
 6438. Jensen, S. C. Trigger mechanism for automatic fire-arms.
 6476. Zalocostas, D. G. Indicating totalizer odds.
 6522. Lawson, G. W. Curtain-pole supports.
 6526. Heavyside, F. *Improvements in and relating to braces for garments.*
 6553. Roper, A. E., & Lean, B. V. Lubricating crank shaft bearings.
 6555. Hoare, R. R. Utilizing differences of fluid and vapour gravities.
 6577. Bache, W. V. Stripper harvester draught gear.
 6578. Hartmann, S. H. Impregnating butter with saline substances.
 6581. Kelly, G. Carburettors for combustion engines.
 6585. Baines, A. Sanitary receptacle for horses.
 6607. Henderson, W. J. Shaving soap sticks
 6614. Webster, A. J. Removing and replacing the covers of elastic tyres.
 6630. Thompson, A. H. (Falkiner, E. J.). Paper cartons and packages.
 6643. Miller, C. M. Hoist, transporter, and discharger.
 6647. Benjamin, E. F. Xanthorrhoea fibrous sheets.
 6648. Woods, G. E. H. Holder for reins and other purposes.
 6649. Gebbie, J. N., & Walpole, J. Binder attachments for reapers.
 6651. Marks, J. A. Electric switchboard handles.
 6652. Harrison, J. T. Shock absorber for crutches and sticks.
 6658. Walling, W. Delivering tickets and change.
 6659. Le Plastrier, C. W. (Hutchinson, G.). Wire fencing.
 6676. Ellis, A. Rabbit bait distributor.
 6678. Hirman, R. E. Boring and threading machines.
 6679. Cole, J. F. Postal envelopes.
 6681. Kelly, J. Holder for harvester beater covers.
 6690. Griffin, W. B., & Jenkins, D. C. Roof tiling.
 6693. Kelly, T. Wire strainer.
 6699. Brown, C., & Whitehouse, A. Manufacturing machine screws.
 6701. Carpenter, A. S. Gate latch.
 6709. Murnane, J. J. Grain harvester combs.
 6716. Cohen, M. E. Pedestal for table lamps.
 6717. Macnicol, A. N. Wheat silos, coal bins, &c.
 6719. Gilruth, J. G. Grain conditioner and grader.
 6737. B. J. Salute Pty. Ltd. (Spink, A., & Taman, D.) Partly metallic hollow-ware.
 6742. Brown, C., & Whitehouse, A. Electric time switches.
 6746. Breeze, E. C. Knickerbockers support.
 6753. Hellstrom, O. B. Chair trouser stretcher.
 6756. Hood, F. Measuring medicated drops for sheep.
 6765. Hart, W. Suction gas generators.
 6771. Scott, R. E. Hinged bolt for pipe joints.
 6774. Heaslip, H. E. J. Cultivator shares.
 6777. Tierney, J. P. Automatic poultry feeder.
 6780. Mackay, Georgina D. X. Automatic telephone call dials.

Complete Specifications lodged after Provisional Specifications.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. The date following the title is that on which the Complete Specification was lodged.

1917.

4055. George Alfred JULIUS and Frederick Augustus WILKINSON—

"Manually controlled machine for printing and issuing differentiated tickets and recording the issue thereof." 21st Mar., 1918.

4069. Hose ADAMSON—

"Improved coin released machine for the vending of stamps tickets and the like." 21st Mar., 1918.

4099. [6809.] Edward ROGERS, *act. inv.*, and Rupert Vivian Johnson BALL, *assignee*—

"An improved harrow attachment for seed drills." 18th Mar., 1918.

4120. John Bretnell CRUMP—

"Improvements relating to the supporting or mounting of the share in potato digging machines." 23rd Mar., 1918.

4335. Hugh Victor McKAY, *assignee of* Alexander LAWSON, *act. inv.*—

"Improvements in stump jump and other ploughs and cultivators." 21st Mar., 1918.

4365. Robert James CREELMAN—

"Improved means for attachment to motor car or such like vehicle for hauling the same out of a quagmire or the like." 25th Mar., 1918.

4375. Herman KURBLE and Clarence Ernest Millie LYFORD—

"Carburettling and vaporising device for petrol, oil or alcohol engines." 26th Mar., 1918.

4387. Samuel Bowering MARCHANT and Harold Siebert TUCKER—

"An improved device for automatically directing the frontal beams of light from motor vehicles." 25th Mar., 1918.

4413. Walter BAILEY—

"Improvements in wrought iron wheel and pulleys." 3rd Apr., 1918.

4434. Thomas Roy MORSE—

"Improvements in internal expansion brakes." 3rd Apr., 1918.

4690. Charles Robert ROGERS—

"Improvements in the manufacture of oil pastes from wet precipitated pigments and the separation of free water therefrom." 3rd Apr., 1918.

4993. John Alfred Hughes DREW—

"Improvements in and connected with the protection of soles or heels of footwear." 27th Mar., 1918.

5014. David HANNAH—

"Improvements in and relating to water storage tanks for domestic or other purposes." 3rd Apr., 1918.

5506. George Blair NUTMAN—

"An improved portable cash desk, combining coin-tray and till." 28th Mar., 1918.

1918.

6221. George William MURPHY—

"Mode of and means for constructing concrete walls." 28th Mar., 1918.

6377. George Frederick BROOKE—

"Improvements in drilling means." 25th Mar., 1918.

6431. John FLINT and James Lyall GRANT—

"Improvements in resilient heel-pads and other rubber articles to resist abraiding action and wear." 23rd Mar., 1918.

6546. Frank LOCK—

"An improved fly-proof screen." 3rd Apr., 1918.

Applications with Provisional Specifications Lapsed, Abandoned, or Withdrawn.

Names in parentheses indicate actual inventors, &c., who are not applicants.

1917.

Lapsed.

4046. E. J. Forbes & Son Ltd. (Hicks, W.)	4070. McLean, Catherine	4085. Harris, C. E.
4047. Jeffkins, R.	4071. Hawkins, P. J.	4089. Leefson, M. A.
4048. Stone, E. G.	4072. Griffiths, W. J., & Jacobson, J. B.	4095. Brettell, P. E.
4049. Berry, S. H.	4074. Forbes, W. C. & D.	4097. Atkinson, J. L.
4052. Neuman, A.	4076. Amalgamated Wire- less (Australasia) Ltd. (Fisk, E. T.)	4101. Gavel, A. G.
4053. Stolznaw, Emauella M.	4078. Spiller, H.	4108. Benjamin, H.
4057. Smith, T. D.	4079. Robbins, G. W., & Salmon, G. E.	4109. MacCormac, M. H.
4058. Mendham, W. R.	4083. Schaefer, E. R. (Schaefer, J. C. A. & E. R.)	4110. Dyer, J., Brown, W. & C. E.
4059. Christie, C., & Riddell, T.	4084. Dennis, H.	4111. Griffin, R.
4061. Turner, J.		4115. Morgan, A. E.
4062. Gold, C. A.		4117. Morris, T. R.
4063. Skidmore, F. W.		4119. Leslie, R., & Hanlon, T.
		4121. Welch, R.

Application for Amendment.

Notice is hereby given that any person intending to oppose the undermentioned Application must leave, at the Patent Office, Melbourne, within one month from the date of this Journal, notice (on Form K) of objections thereto.

1915.

18,065. 30 Nov. (See page 1070/16.)
"Improved fuel for use in internal combustion engines, artificial lighting and the like."

John Thomas USHER (*patentee*) seeks leave to amend the Complete Specification in connexion with the application lodged on the above date, as below, alleging as the reasons: "The amendments are proposed for the purpose of having my invention more explicitly defined in the text of the specification and claims."

PROPOSED AMENDMENTS.

The references are to the typed copy lodged with the Application for Amendment and certified on 13th March, 1918.

1. Alter title to read as follows:—"Improved volatile liquid fuel for use in internal combustion engines, and air gas generators."

PAGE 2.

2. Line 1, insert the words "volatile liquid" after the word "improved".

3. Line 2, delete "the" and insert in place therefor the word "air".

4. Line 3, delete "like" and insert in place therefor "gas generators".

5. Lines 4, 5, and 6, delete the following words, "The object of the invention is to provide a fuel which possesses the advantages of petrol whilst being cheaper".

6. Line 6, before "The" insert the following words, "As a source of motive power." Alter "The" to "the".

7. Line 7, after "petrol" insert the following words, "or like mineral oil spirits, e.g., it is cheaper except when oil spirits are obtainable at prices substantially below normal market values"; line 7, delete "e.g."; alter "residue" to "residual"; delete "of".

8. Line 8, after "cooler" insert a "comma".

9. Line 9, after "engine" insert a "semicolon"; after "cylinder" insert a "semicolon".

10. Line 13, after "alcohol" insert a "comma"; before "resulting" insert the words "this fact assuring"; delete the words "resulting in".

11. Line 14, after "combustion" insert the following words "and easier starting of the engine when cold"; delete the following words, "and it will start the engine when".

12. Line 15, delete the following words "cold without any difficulty".

13. Line 16, insert after "be" the following words, "vaporized and mixed in"; delete "used with"; after "and" insert the following words "the gaseous mixture used as fuel".

Application for Amendment—continued.

14. Line 17, after "engine" insert the word "usually"; alter "adjustment" to "readjustment".

15. Line 18, alter "engine" to "carburettor". Commence new paragraph with the words "The improved fuel".

16. Line 19, after "benzine" insert the following words "or other mineral oil spirits and ethyl"; delete "and"; after "alcohol" delete "dash" and insert in place thereof a "period"; alter "the" before alcohol to "The"; delete "the" at end of line.

17. Line 20, delete words "ordinary alcohol".

PAGE 3.

18. Line 3, before "alcohol" insert the word "Ethyl"; enclose the figures and word "96% pure" in brackets; alter "60%" to "40%".

19. Line 4, alter "40%" to "60%".

20. After line 4 insert the following paragraph: "It is undesirable that the alcohol contain any considerable proportion of water and a nearly absolute alcohol should be used. The addition of the usual denaturants is not however of any material consequence".

21. Line 5, delete "might be" and insert in place thereof the word "is".

22. Line 8, before "the" insert a "semicolon" and add the following words there-after "thus for instance, for a high compression engine the proportion of alcohol may be increased to approximate equality with or somewhat in excess of the mineral oil spirit. The relative"; delete "the" before "proportions".

23. Line 9, delete "will"; alter "meet" to "meets"; delete "an" and insert in place thereof the word "most".

24. Line 10, alter "engine" to "engines."

CLAIMS.

25. Claim 1, line 2, delete "of"; insert after "mixture" the following words "approximating to equality of ethyl"; delete "benzine" and insert therefor "mineral oil spirits".

26. Claim 2, line 2, delete "benzine" and insert in place thereof the words "mineral oil spirits"; before "alcohol" insert the word "ethyl".

Specifications open to Public Inspection before Acceptance,

UNDER SECS. 121 AND 122, "PATENTS ACT 1903-1909."

The specifications may be inspected at the Patent Office, Melbourne, on payment of the search fee of One Shilling in respect of each Application.

Typed copies of specifications will be supplied at Sixpence per 100 words (minimum charge, One Shilling).

Sun prints of drawings will be supplied at One Shilling per foolscap folio sheet (8 inches x 13 inches).

Fees must be tendered in cash or postal note or in money order, payable to the Commissioner of Patents, Melbourne.

1917.

5983. Leonard Harold DRAYTON.

[Date applied for under Intercolonial Arrangements, 3rd Apr., 1917, being date of application in New Zealand, No. 38,680; open to public inspection, 4th Apr., 1918.]

"Improved arrangement for the opening and closing of bags and articles of a like description."

1918.

6410. SOCIÉTÉ FRANCO-BELGE DES FOURS A COKE.

[Date applied for under International or Intercolonial Arrangements, 26th Feb., 1917, being date of application in France, No. 484,638; open to public inspection 3rd Apr., 1918.]

"Improvements in horizontal coking ovens."

6635. Westcote Raymond LYTTELTON and THE TRIPLEX SAFETY GLASS COMPANY LIMITED.

[Date applied for under International or Intercolonial Arrangements, 31st Mar., 1917, being date of application in Great Britain, No. 4688/17; open to public inspection 3rd Apr., 1918.]

"Improvements in or relating to glass cutting machines."

Complete Specifications Accepted.

OPEN TO PUBLIC INSPECTION AT THE PATENT OFFICE, MELBOURNE.

SEARCH OR INSPECTION FEE—ONE SHILLING EACH.

Notice is hereby given that all persons interested in opposing the grant of a Patent on any one of the following applications may, at any time within three months from the date of this Journal, or within such further time not exceeding one month as may on application made within such three months be allowed, give notice at the Patent Office, in Form G, which must be accompanied by the fee of £2, tendered in cash or postal note or in money order.

Within fourteen days after the lodging of the notice of opposition, or within such further time as the Commissioner allows, the opponent shall leave at the Patent Office declarations and copies thereof in support of his opposition, and forthwith after the receipt thereof the copies shall be transmitted by the Commissioner to the applicant.

Failure by an opponent to lodge declarations shall be deemed intentional abandonment of the opposition.

1917.

- | | |
|--|--|
| 3273. Wiatt. Domestic water heater. | 4306. Blyth & Lister-Kaye. Transferring loose material. |
| 3514. The Broken Hill Associated Smelters Pty. Ltd. (Brahe). Retort transporter. | 4324. Kennett. Bedstead rail bracket. |
| 3532. Grant & The Morgan Crucible Co. Ltd. Commutator brush. | 4400. Beisel. Non-refillable bottle. |
| 3533. Bartram & Gillies. Teat cup. | 4407. Wilzin. Bottle-making. |
| 3643. Clarence H. Smith Ltd. (Smith). Stump-jump disk cultivator. | 4527. Milburn. Flushing cylinder. |
| 3656. Hudson & Beauchamp. Operating railway signals. | 4537. Tompkins. Instruction model. |
| 3912. Dugins. Portable stamper battery. | 4793. Monotype Machine (Colonial Patents) Synd. Ltd. (Indahl). Record strip composing. |
| 3946. Marks. Tobacco cultivation. | 4858. McKay (Heaslip & Heaslip). Crop lifter. |
| 3985. Automatic Electric Co. (Richardson). Automatic telephone system. | 4872. Houdini. Diving-dress. |
| 4066. Harmer. Boot soles. | 4882. Shortt. Mop wringer. |
| 4123. Murray. Waterproof ventilated boot. | 5212. McGrath. Seeding cultivator. |
| 4143. Boden. Rifle trigger. | 5278. Harrison. Dehorning tool. |
| 4241. Jenyns. Hernia truss. | 5358. Reichelt. Driving steering wheels. |
| | 5416. Joyce & Buckton. Lawn sprinkler. |
| | 5439. Huebner. Cultivating seeder. |
| | 5585. Meister. Kerosene pump. |

NOTE.—THE SURNAMES IN PARENTHESES INDICATE ACTUAL INVENTORS (OR OTHER INTERESTED PARTIES) WHO ARE NOT APPLICANTS. ITALICS INDICATE THAT SOME AMENDMENT HAS BEEN MADE.

Further information of the inventions in the above Specifications is given in the following Illustrated Notes, and the full particulars of names, addresses, and occupation or calling of persons concerned in each application are stated in the Printed Specifications.

Printed copies of the above Specifications may now be ordered from the Government Printer, Melbourne, price One Shilling each, post free for cash or postal note; the copies will be posted from Melbourne two weeks after the date of this Journal, when copies will also be forwarded to the Trade Marks Sub-offices, at the Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart, for sale on demand.

A list of Australian and Foreign Offices and Libraries at which the Printed Specifications are placed for free public inspection is given in the first Journal of each quarter.

Illustrated Notes

TO THE FOREGOING ACCEPTED COMPLETE SPECIFICATIONS.

The class numbers refer to similar inventions comprised in the Classified Subject Matter Indexes.

1917.

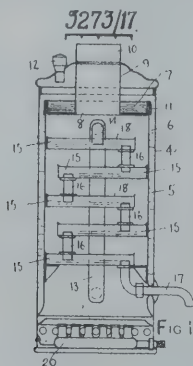
3273. 17 Feb. J. P. WIATT, New South Wales.

Class 24.5.

Domestic Water Heater.

To facilitate repairs a water heater is provided with a removable internal circulating system consisting of staggered circular chambers 15, provided with sealed removable lids 18.

The water supplied by the main 12 overflows the dished top 7 into the outer jacket 4 which is connected at the base to a channel 13. The channel is connected to the top chamber 15 through which the water flows to the discharge pipe 17.



3 figures, 4 claims.

3514. '21 Mar. THE BROKEN HILL ASSOCIATED SMELTERS PROPRIETARY LIMITED, assignee of H. W. BRAHE; act. inv., South Australia.

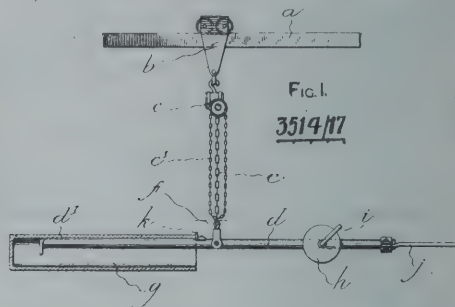
Classes 59.4; 59.9; 19.2.

Retort Transporter.

To facilitate the removal of spelter retorts from the furnace a lever *d*, formed at *d'* to the shape of the inner surface of a retort *g*, is adjustably suspended by a chain *e* from a travelling carrier *b*.

A counterbalance weight *c* can be secured in position by a clamping-screw *i*, and handles *j* are provided to guide the movements of the lever.

In a modification to facilitate longitudinal movement, the lever is passed through a saddle suspended from the carrier and fitted with antifriction rollers.



4 figures, 11 claims.

3532. 22 Mar. J. E. GRANT and THE MORGAN CRUCIBLE Co. LTD., England.

Date applied for under International or Intercolonial Arrangements, 31st Mar., 1916, Great Britain, No. 4775/16.

Class 02.2.

Commutator Brush.

To dispense with solder or rivets for securing a carbon brush to the insulating cap which receives the pressure of the brush-holder finger, the cap *b* is formed with a dovetailed channel which embraces the top of the brush *a*, the conductor *c* being attached after the cap is secured in place by gum or shellac.

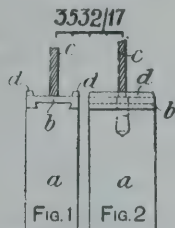
The cap is made of vulcanized fibre, rubber, or mica, and may be provided with ledges *d* to prevent the lateral movement of the spring finger.

In modifications a circular cap may be sprung into a similar shaped undercut recess

[Continued next page.]

Illustrated Notes—continued.

in the brush, and the conductor may be attached to the top or sides of the brush without passing through the cap.



21 figures, 3 claims.

3533. 22 Mar. H. W. BARTRAM and A. GILLIES, Victoria.

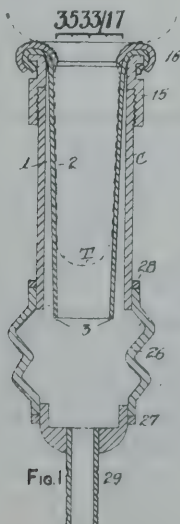
Class 36.13.

Teat Cup.

To limit the expansion of the teat a closely fitting rubber shield is mounted within a relatively narrow casing, and kneading action on the udder is ensured by a folding flexible connexion 26 between the nipple and the casing.

The shield 2 forms a glove for the teat, and is secured to the casing by a tubular band 16, or by a ring and a perforated disk. The top portion of the cup may be tapered and the mouthpiece flared, a similar tapered joint being provided for the nipple.

In modifications vertical springs, which are secured to the casing and shield, or suspended from the top of the casing, prevent undue expansion of the teat.



6 figures, 7 claims.

3643. 5 Apr. CLARENCE H. SMITH LIMITED, assignee of C. G. SMITH, act. inv., South Australia.

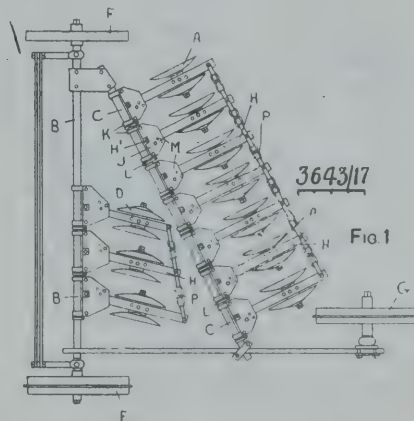
Classes 30.7; 30.9.

Stump-jump Disk Cultivator.

To obviate side draught and the necessity for heavy supporting wheels, supplementary oppositely inclined disks D are connected to the front bar B.

The rising beams H swing laterally between the base-plates J to which they are attached by pivot pins H¹, stop-pins M being provided to keep the disks against their work. The base-plates are connected to the frame bars B and C by hinge-straps K, and the ends of the rising beams are connected by springs or coupling chains P.

In a modification for a light machine the rising beams may be omitted, the disks being mounted on the bars B and C.



3 figures, 6 claims.

3656. 5 Apr. W. HUDSON and A. W. BEAUCHAMP, Queensland.

Class 99.2.

Operating Railway Signals.

A signal operating device in which an electro-magnetic clutch on the signal-arm spindle is brought into engagement with studs or teeth, on a driven worm-wheel or drum.

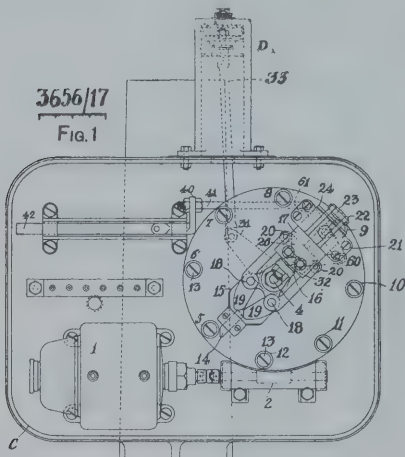
The worm-wheel, which rotates loosely on the signal-arm spindle 4 when driven by the motor 1 and worm 2, is provided with studs

[Continued next page.]

Illustrated Notes—continued.

5—12 which are engaged by the plunger 14 of the clutch. The clutch frame 15 is fixed to the signal-arm spindle 4 and carries pivoted tumblers 19, the upper ends of which are provided with rollers 20 adapted to be engaged by a tapered plate 26 which under the action of an electro-magnet prevents the tumblers opening and consequently the plunger from moving out of the path of the studs 5—12, until it is desired to release the signal. A dash-pot D and circuit controller 42 are connected to the signal-arm spindle 4 by a bell-crank 31, 32.

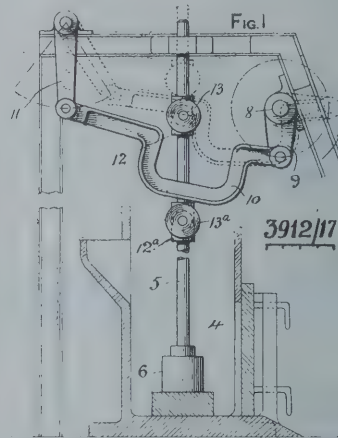
In a modification the motor 1 and worm-wheel are replaced by a manually-operated drum, which is provided with teeth for engagement by the plunger 14 and around which the signal wire is wound.



8 figures, 11 claims.

As the crank rotates in the direction of the arrow the upper edge of the bar 10 will come under the tappet 12 and thus lift the stem 5 to the position in dotted lines. On further rotation of the crank the upper edge comes out of contact with the tappet 12, thus the stem falls by gravity within the U recess of the bar 10.

In modifications the tappet 12 may be provided with a revoluble disk, and the oscillatory bar may be straight and provided with a flange for part of its length. For high speed work a secondary tappet and revoluble disk may be located on the stem below the U recess.



2 figures, 5 claims.

3912. 9 May. W. F. DUGINS; Victoria.

Classes 10.2; 60.3.

Portable Stamper Battery.

To facilitate dismantling for transportation a three or five head battery is fitted with an oscillatory lift-bar for each head instead of the ordinary cam.

One end of the oscillatory U-shaped lift-bar 10 is connected to the crank 9 and the other end is loosely attached to the hanger bar 11.

3946. 11 May. G. E. MARKS, Western Australia.

Classes 33.3; 31.9; 31.4.

Tobacco Cultivation.

To prevent blue mould young tobacco plants are reared in a culture chamber and nourished with liquid food from apertured pipes buried or partially buried in the plant bed. The atmosphere is continuously agitated by a fan to allow air to pass in and out through louvers.

No drawing, 1 claim.

Illustrated Notes—continued.

3985. 15 May. AUTOMATIC ELECTRIC COMPANY, assignee of R. G. RICHARDSON, act. inv Illinois, United States of America.

Class 05.7.

Automatic Telephone System.

In a two-wire system the operating magnets are controlled exclusively by quick-acting relays.

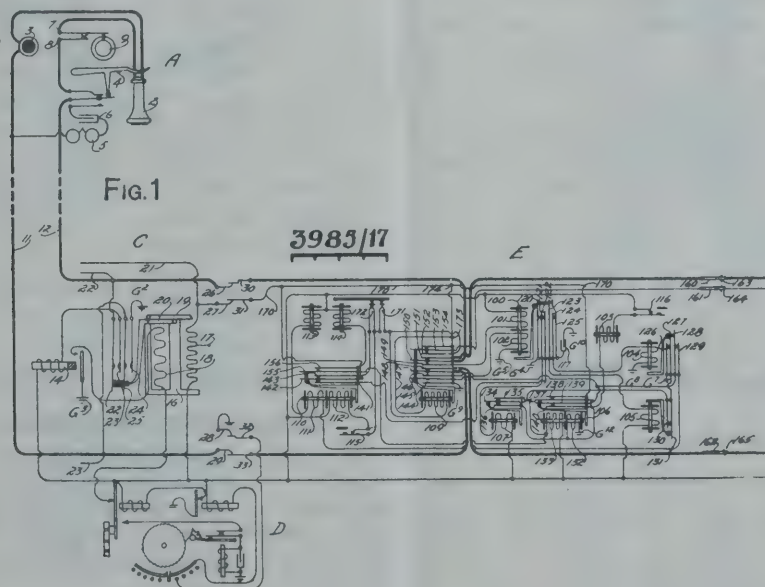
The controlling relays 104, 105 in the selector switch E, are connected to the ground and battery, respectively, on one side and on the other to the ground G¹⁰, through the condenser 117, by the springs 123, 124, 125 of the line relay 100.

Upon removal of the calling receiver the line relay 100 is energized and a circuit is closed through the relay 105 over the condenser 117, the charging of which causes the relay 105 to momentarily energize and complete a circuit for the relay 106, by which the circuit of release magnet 103 is held open while impulses are being transmitted.

At the first de-energization of the relay 100 the condenser 117 is discharged by way

of springs 124, 125 through the relay 104, which is momentarily energized, and by its springs 128, 129 controls the operation of the vertical magnet 113 over a circuit which includes the winding 111 of the relay 110 by which a circuit is prepared for the rotary magnet 114.

At the final break in the series of vertical impulses a circuit is completed through the rotary magnet 114 by way of the springs 126, 127, 130 and 131 of the relays 104 and 105. At the end of the first step the circuit of relay 110 is interrupted at the contacts 171, 172. Should the trunk selected be already in use a fresh circuit is closed over the relay 110, causing the latter to again energize and complete a fresh circuit for the rotary magnet.



2 figures, 35 claims.

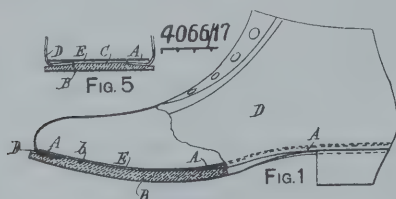
Illustrated Notes—continued.

4066. 22 May. W. S. HARMER, Victoria.

Class 44.3.**Boot Soles.**

To reduce the weight and increase the pliability of boots the insole **A** is provided with a central opening having skived edges which fit over a projection **b** formed by skiving the edges of the outsole **B**.

The projection may be reduced in height to provide for a layer of cork **C** between the outsole and the sock **E**.



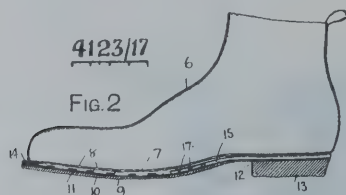
5 figures, 3 claims.

4123. 28 May. W. A. MURRAY, New South Wales.

Classes 44.0; 44.3.**Waterproof Ventilated Boot.**

To provide ventilation an inner waterproof liner **10**, having projections **11**, is secured between a perforated insole **7** and the outer sole **9**.

A tube **15**, which is perforated at **17**, communicates with the atmosphere through an opening in the back of the heel.



5 figures, 3 claims.

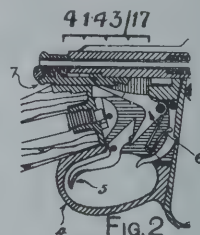
4143. 29 May. T. F. BODEN, New South Wales.

Class 89.3.**Rifle Trigger.**

To minimize the liability to derange the aim of a rifle by pulling the trigger, the

trigger arm **5** is bent backwards parallel with the stock **3**.

The rifle is fired by an upward pressure of the trigger-finger towards the thumb above with the stock.

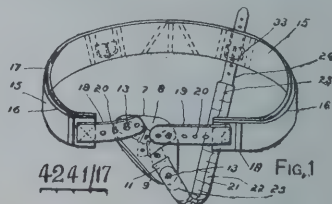


2 figures, 3 claims.

4241. 8 June. E. R. JENYNS, SEN., Queensland.

Class 87.4.**Hernia Truss.**

To regulate the pressure of a hernia truss, spring levers, pivotally attached to the cupped stiffener plate of the pad **7**, are provided at their free extremities with studs **13** for engagement with eyelets **20** formed in a belt **15** stiffened by waterproof leather strips **18**.



9 figures, 9 claims

4306. 16 June. C. E. BLYTH and L. LISTER-KAYE, England.

Date applied for under International or Intercolonial Arrangements, 8th Apr., 1916, Great Britain, No. 104,775.

Classes 59.9; 59.6; 25.8.**Transferring Loose Material.**

To project granular substances such as wheat, coal, or broken stone, to a distance by throwing, the material is fed between high speed surfaces arranged in yielding contact and discharging at an upward inclination.

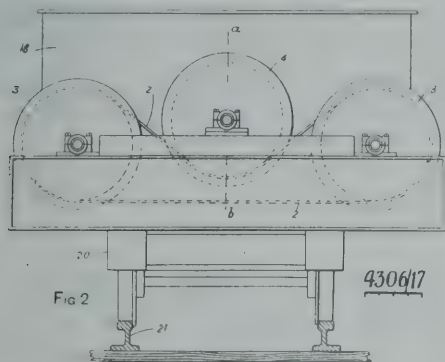
The surfaces may consist of a belt **2** passing over pulleys **3** and beneath a drum **4**, the whole being driven at high speed by an electric motor. Material fed between the

[Continued next page.]

Illustrated Notes—continued.

belt and drum on emerging is projected to a distance depending upon the speed of the contacting surfaces. To allow for variations in the coarseness of the material the drum 4 is formed with a yielding surface of sheet leather, or of radial wire bristles attached to a central boss.

In a modification the material is passed between two belt surfaces moving at a high speed in the same direction.



10 figures, 11 claims.

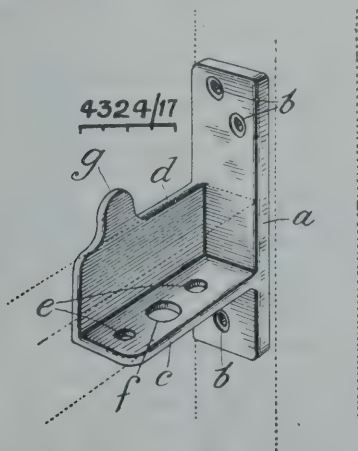
4324. 19 June. C. E. KENNETT, Victoria.

Sec. 63A. Including cognate No. 5780/17.

Class 45.9.

Bedstead Rail Bracket.

To connect the side rails and posts of a wooden bedstead, or to support a mattress frame, a bracket *a*, having a mattress-retaining lug *g* and a base plate *c* with bolt holes *e*, is attached to the post by coach screws. The usual mattress bolt is accommodated in the hole *f*.



1 figure, 2 claims.

C. 4808. -3

4400. 28 June. W. J. BEISEL, New York, United States of America.

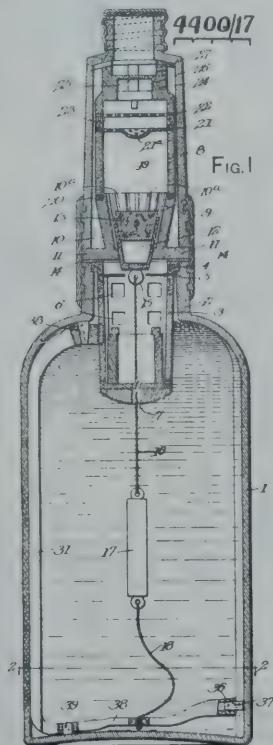
Class 57.6.

Non-refillable Bottle.

A non-refillable bottle, as in 10,569/13 or 16,732/15, in which the base of the weight is secured to a frame which can be inserted through the neck and is held in position by flexible pads to prevent breakage.

The weight 17 is connected by a chain 18 to a frame 31 which can be inserted through the neck 2. The end 36 and the vertical arm 31 are received by grooves in the sides of the bottle, and the frame is provided with cork pads 37, 38, and 39.

The upper end of the weight is connected to a tapered valve by a chain 16 which passes through a cylinder 3 in the neck. The screens 21 and 22 are separated by an opaque ring 23, the lower screen having a projection 21a which prevents the valve closing the perforations. To prevent access to the mechanism a guard 24 is mounted in the neck above the screen 22.



3 figures, 6 claims.

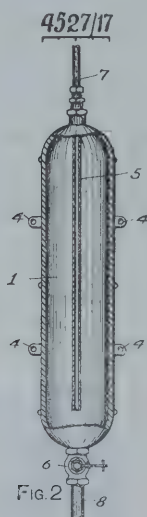
Illustrated Notes—continued.

4527. 10 July. J. J. MILBURN, New Zealand.

Class 86.2.

Flushing Cylinder.

To facilitate silent flushing the service-pipe 7 is connected to a central pipe 5 reaching nearly to the bottom of a cylinder 1. The air is thus compressed in the upper portion of the cylinder and causes a rapid and silent flush of water on opening the discharge-cock 6.



2 figures, 2 claims.

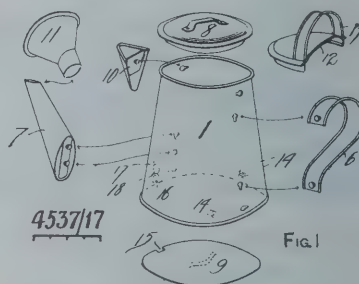
4537. 11 July. S. W. TOMPKINS, Victoria.

Class 49.6.

Instruction Model.

To facilitate instruction in drawing a body part 1 is provided with keyhole slots by which different spouts, or handles, can be attached to build up models of jugs, teapots, &c.

By inverting the body and attaching other handles, articles, such as buckets or ladles, may be represented.



4 figures, 4 claims.

4407. 29 June. A. WILZIN, France.

Date applied for under International or Intercolonial Arrangements, 11th Oct., 1916, Great Britain, No. 14,445/16.

Class 19.6.

Bottle Making.

An automatic machine for manufacturing glass hollow-ware in which the periods are adjustably determined by a timing control wheel. The duration of the temperature equalization process for the parison is determined by adjustable dogs 39—43 on the control wheel.

Disks 4, 5, rotating integrally with a shaft 3, have cam-grooves on both their inner and outer faces to operate the various phases of the work. The disk 5 has teeth 13 meshing

with a pinion on a shaft 15 controlled by a free-wheel clutch 17 connecting with a pinion 19 meshing with a pinion 21 on a shaft 22 continuously driven by an electric motor.

The clutch 17, normally inoperative, is actuated by a latch 52 operated by the control wheel 24 having teeth meshing with a worm on the shaft 27 geared to the shaft 20.

Glass dropped into the parison mould 55 is subjected to a negative pressure from a

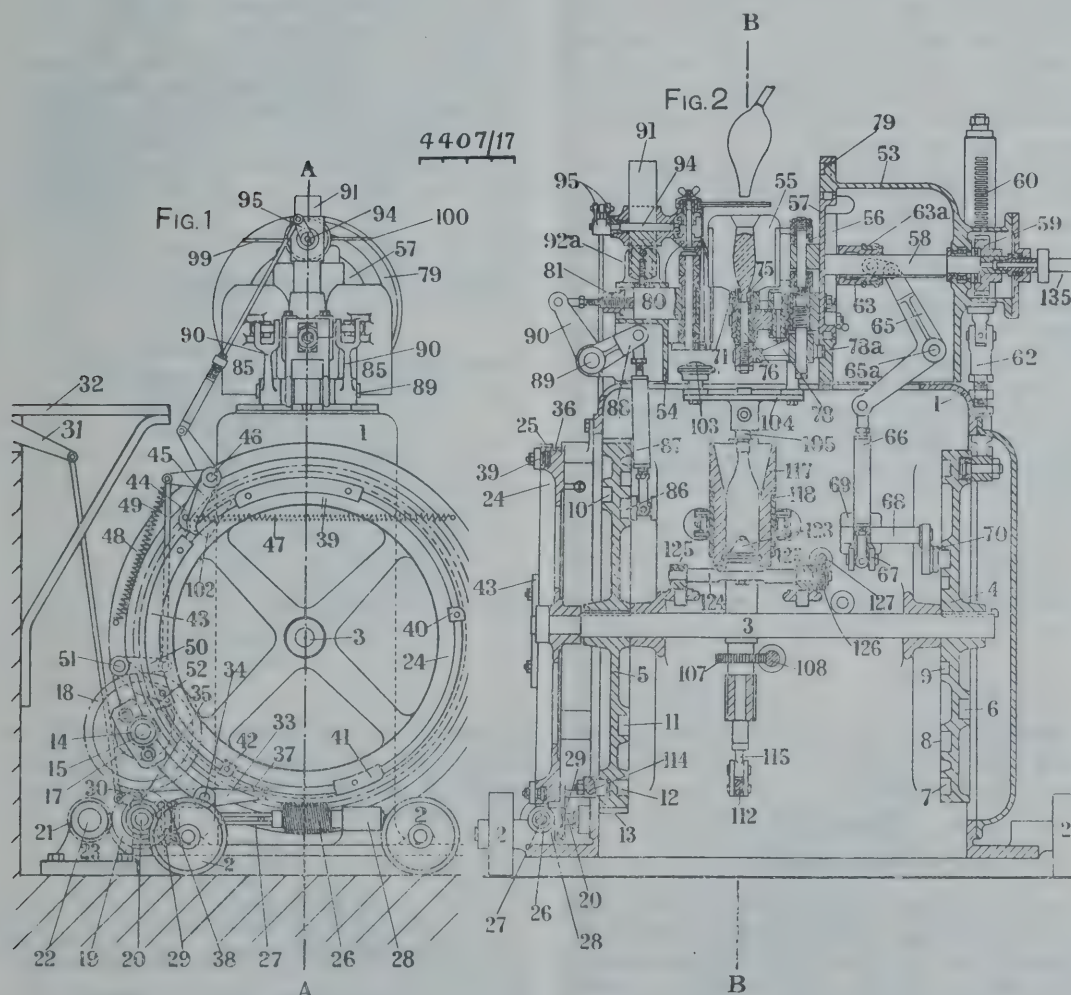
[Continued next page.]

Illustrated Notes—*continued.*

three-way valve when controlled by a dog on the control wheel; the pedal 31 is depressed to clutch the pinion 19 to the shaft 20 to rotate the wheel 24, whereupon the pressure is cut off from the neck mould 71 and the recess 102 comes under the bell-crank lever 44 which operates to rotate the shaft 94 to close the shears 99, 100. The parison mould is then inverted by a pinion 59 and a rack-bar 60, whereupon a cam 79 causes a plunger 75 to move outward of the neck mould that the parison may be acted upon by air pressure, the bottom mould now closes and the shaft 3 and disks are stopped.

Air under high pressure is admitted by movement of the wheel 24, dog 40, and pins thereupon to mould the bottle. The finishing mould is closed about the parison by contact of a dog 42 with a crank-lever 45, setting the shaft 3 in motion and causing a cam 11 on the disk 5 to close the halves of the mould; the finishing blowing will be effected by a dog 43 becoming operative, the air being admitted as the pins on the wheel open the valve.

When forming screw-threaded bottle necks the plunger 75 is rotated during withdrawal.



Illustrated Notes—continued.

4793. 3 Aug. MONOTYPE MACHINE (COLONIAL PATENTS) SYNDICATE, LIMITED, assignee of M. C. INDAHL, *act. inv.*, Penn., United States of America.

Sec. 85. Additional to No. 3301/17.

Class 50.5.

Record Strip Composing.

A monotype composing machine, as in 3301/17, in which the repeat signal mechanism is provided with means for cutting off the pressure from the pneumatic motor coupled to the justification indicator device.

A piston in the cylinder 25 operates a rack in engagement with a pinion on the gear spindle 10. The opposite side of the pinion meshes with a rack on the gauging member 9. The cylinders 12 and 25 are connected by pipes 28 and 117 and a justification control valve 51 to air under pressure in the chamber 161.

When a special key 15^a and a character key are depressed, the motor 26^a reciprocates the repeat-bar 19^a on a rocking frame which is pivotally mounted on a bracket 23^a fastened to the connecting bracket 17^a. At this time the motor of the justification indicator mechanism is cut off from the air pressure and exhausted to the atmosphere.

In a modification when the justification control valve is retracted, communication is maintained between the chamber 161 and the pipe 117, the communication being closed when the valve is advanced.

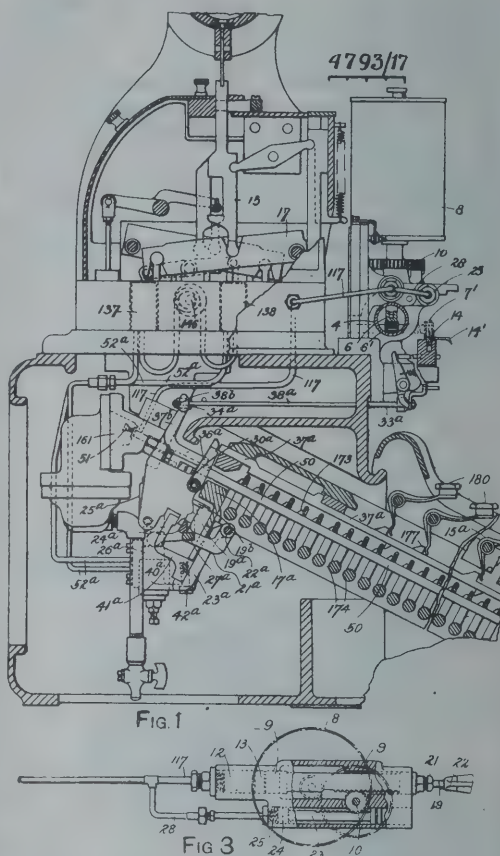


Fig. 1

Fig. 3

8 figures, 8 claims.

4858. 10 Aug. H. V. MCKAY, assignee of R. and H. E. J. HEASLIP, *act. invs.*, South Australia.

Class 32.5.

Crop Lifter.

An adjustable extension comb for lifting fallen crop, as in 12,698/08, in which an inclined bar A, fitted with a stump-jump point B actuated by a spring B¹, is pivoted to strap-bars C which are provided with sockets D¹ adapted to fit on the harvester tooth E.

Holes in the plate a¹ permit the angle of

the bar A to be adjusted by means of a stretcher-rod G which is secured to the bracket F and may be attached to the base of the beater-drum.

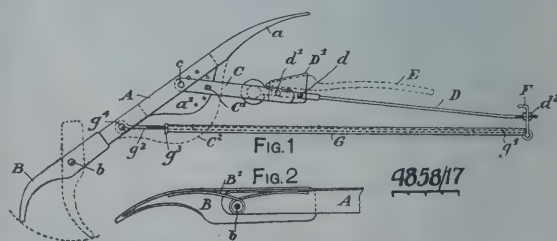


Fig. 1

Fig. 2

9 figures, 6 claims.

Illustrated Notes—continued.

4872. 11 Aug. H. HOUDINI, New York, United States of America.

Class 82.8.

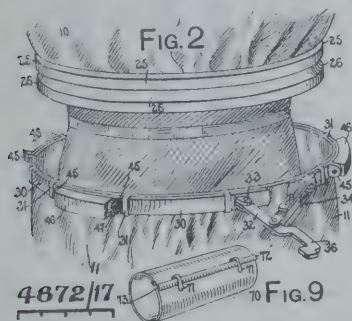
Diving Dress.

To enable a diver to divest himself of a diving-dress in case of accident while submerged, a manually controlled water-tight connexion is provided between the upper and the lower sections.

The upper section 10 is formed with integral gloves and carries a resilient band 25 having a groove 26 fitted with a correspondingly shaped metallic band, into which fits the waist of a trousers section 11 formed with integral sock portions and provided with a split metallic belt 30, which is tightened by a hand-lever 32 and an adjustable link 34. Removable weights 46 are attached to the belt by screws 45 passing through lugs 31.

Weighted shoes with back stiffening plates are attached to the feet by straps and buckles.

Stiff gauntlets 70 are secured around the fore-arms and the lower portions of the legs to prevent inflating of the extremities.



9 figures, 8 claims.

4882. 13 Aug. J. SHORTT, Victoria.

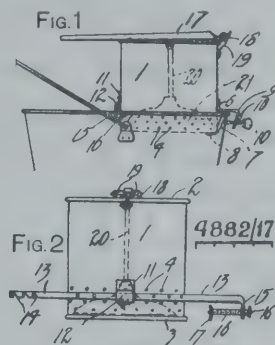
Class 25.5.

Mop Wringer.

A mop-wringing appliance in which a container 1, perforated along the lower portions, is adjustably fitted to a bucket by a pinching-screw 10 and a notched clamping-bar 13 sliding in a loop 12 on the opposite

C.4808.—4

side. A lever-operated squeezing device 21 is cut away to accommodate the mop handle.



5 figures, 6 claims.

5212. 19 Sept. J. McGRATH, Victoria.

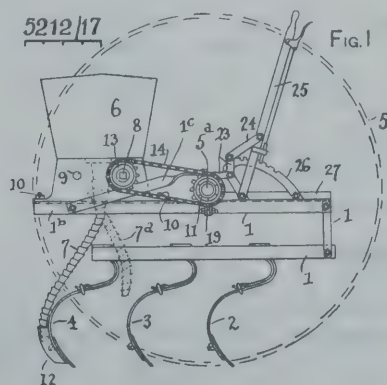
Class 31.1.

Seeding Cultivator.

To attach seeding and fertilizer mechanism to an ordinary tine cultivator, an extension is secured to the main frame, the feeding-gear being operated by a sprocket chain controlled by a clutch on the main axle.

The seed-box 6 is bolted to the extension 1^b which is supported on the main frame by the stay 1^a. A clutch on the main axle 5^a is operated by the lever 25 and by means of sprockets 11, 13 drives the spindle 8.

The feed-tubes 7 are mounted behind the hoes 4 which are greater in number than the hoes in the front rows.



4 figures, 3 claims.

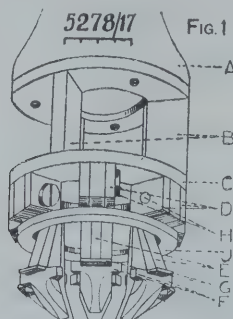
Illustrated Notes—continued.

5278. 25 SEPT. J. D. W. HARRISON, Argentine Republic.

Class 37.2.**Dehorning Tool.**

A device for dehorning cattle in which a plurality of inwardly curved blades with inclined outer surfaces **E**, are pivoted to a ring **C** suspended from a handle **A**.

When the blades **E** are placed around the horn and the handle is struck with a mallet, the inclines **E** cause the blades to penetrate and close together until the sliding ring **J** falls on to the lugs **G**. If a slight twisting movement is then given to the handle the horn is extracted at its base.



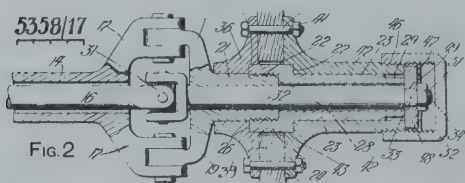
9 figures, 6 claims.

5358. 3 Oct. E. A. REICHELT, Victoria.

Class 95.9.**Driving Steering Wheels.**

To impart power to the front wheels of a motor vehicle and allow of their being steered, a stationary hollow front axle **14** encloses a driven axle **16**, **32** which is provided with a universal joint **31** and carries a driving-plate **48** accommodated by a recess **47** on the rotatable hub member **42** of the wheel **39**.

The axle **16** is driven from the main driving-shaft through a forwardly extending countershaft and front differential gear.



6 figures, 6 claims.

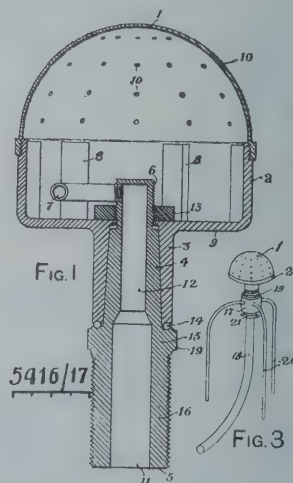
5416. 9 Oct. E. T. JOYCE and J. BUCKTON, New Zealand.

Date applied for under Intercolonial Arrangements, 5th Feb., 1917, New Zealand, No. 38,449.

Classes 74.9; 31.9.**Lawn Sprinkler.**

A sprinkler in which a tangential water jet **7**, impinging on vanes **8**, causes the base **2** to rotate on the neck **4** provided with a ball-race **14**, the water escaping in the form of spray through orifices **10** in the dome.

The neck is screwed into a boss **17** provided with legs **20**, the hose union **21** engaging with the end **11** which projects through the boss.



3 figures, 5 claims.

5439. 11 Oct. O. B. H. HUEBNER, Victoria.

Classes 31.1; 31.2; 30.4.**Cultivating Seeder.**

To permit variation in the depth of cut, seed directors **10**, as in 1046/16, are adjustably mounted on the cultivator standards **9** by an apertured band and pin. The rows of combined cultivators and seeders are adapted to be lifted independently of the rows of cultivators.

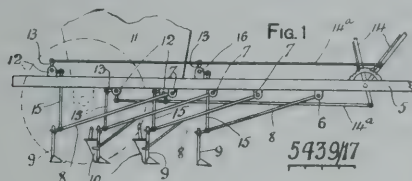
The inner rows are elevated together by a lever **14**, lower rod **14^a**, and bell-cranks **13**, while the outer rows are controlled by the upper rod **14^a**.

[Continued next page.]

Illustrated Notes—continued.

The hoes are held to the work by spring-pressed toggles mounted on the trailers.

In a modification the leg of the hoe is dispensed with, the hoe being secured to the foot of the director to which the spring toggle and trailer are connected.



4 figures, 5 claims.

5585. 24 Oct. H. MEISTER, New South Wales.

Class 22.4.

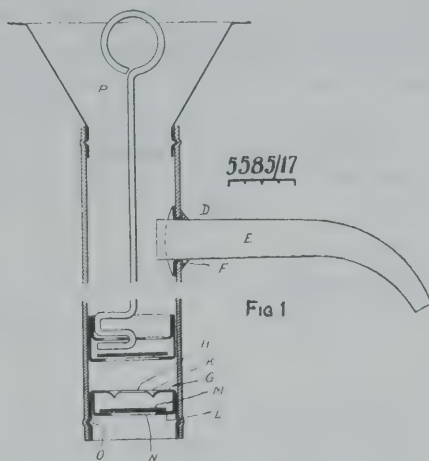
Kerosene Pump.

A pump in which the barrel is constructed of a spirally wound paper tube treated with an insoluble varnish.

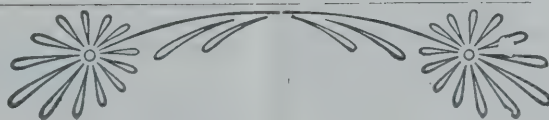
The spout **E** is soldered to an eyelet closed on to the walls of the barrel, while the metal

foot valve **G** and the top **P** are secured by embossing. The piston and rod are constructed as in 9282/13.

In a modification the open top is dispensed with, and a cap with a hole for the rod is secured to the top of the barrel.



3 figures, 3 claims.



Commonwealth Specifications.

The following Specifications are now on sale :—

1904-10.

1 to 20,337, Vols. 1 to 102, complete with title pages, &c.

1911-15.

1 to 7599, Vols. 103 to 140, complete with title pages, &c.

7600 to 7799, Vol. 141, incomplete.

7800 to 8599, Vols. 142 to 145, complete with title pages, &c.

8600 to 18,243 and all subsequent accepted Specifications.

13,233. McLean & Coull. Amended Specification.

16,942. Callinan. Amended Specification.

The following Specifications, acceptance of which was advertised in *Official Journal* of the 19th March, 1918, are now printed and on sale :—

1916.

2732. Helton.

2875. The British Imperial Oil Co. Ltd.
(Parker).

1917.

3077. Miller & Harvey.

3085. Automatic Electric Co. (Smith).

3092. Richards & Cottrell.

3396. Ruddie & Davidson.

3417. Steel Castings Pty. Ltd. (Sutherland).

3446. Sanders.

3539. Moss.

3692. Oxlade.

3717. Kelly.

3826. Steel Castings Pty. Ltd. (Sutherland).
Cognate sheet.

3731. Masselene.

3740. Mahood.

3765. King & Maynard.

3778. Clarke & Heckle.

3889. Strong.

3989. Olán.

4272. Drummond & Drummond.

4510. Garrett, Ure, & Smith.

4954. Taylor.

5138. Allwell.

5193. Reece.

5201. Nairn.

5245. Worthington Pump & Machinery
Corp. (Potter).

5455. Hawtin.

5463. Wall.

5887. Meggitt Ltd. (Huntley).

4245. Kelly. Cognate sheet.

4824. Mahood. Cognate sheet.

Further particulars will be found in the Illustrated Notes, pages 238 to 246 of Vol. 28.

3356. Gold. Amended Specification.

The Specifications are forwarded to the following places, where they are open for *free* public inspection :—

Victoria:

Melbourne—Commonwealth Patent Office, Rail-
way Offices, Flinders-street.
Public Library, Swanston-street.

New South Wales:

Sydney—Trade Marks Sub-office, Commonwealth
Bank Buildings.
Public Library, Macquarie-street.

Queensland:

Brisbane—Customs House, Queen-street.
Public Library, William-street.

South Australia:

Adelaide—Post Office Buildings, King William-
street.
Public Library, North Terrace.

Western Australia:

Perth—Customs House, William-street.
Public Library, Beaufort-street.

Tasmania:

Hobart—Customs House.

Other places will be duly announced.

New Zealand:

Wellington—Patent Office.

Great Britain:

London—Patent Office, Southampton Buildings.
Commonwealth Office, 72 Victoria-
street.

Birmingham—Reference Library, Ratcliff-place.

Dublin—National Library, Kildare-street.

Glasgow—Sterling's Library, Miller-street.

Manchester—Free Library, Deans Gate.

Swansea—Public Library.

France:

Paris—Office National de la Propriété Indus-
trielle, 292 Rue Saint-Martin.

Norway:

Christiania—Patent Office.

Japan:

Tokyo—Patents Library.

Commonwealth Specifications—continued.

Complete sets of Printed Specifications may be obtained from the Government Printer, Melbourne, at 4d. per copy delivered over the counter. Specifications relating to one Group of manufacture, in order as issued, or such of the Specifications (in one Group) as may be selected from those already published, until 80 copies have been supplied, may be obtained on depositing £2. Parcels of 30 Specifications may be purchased at £1. Postage should be added to cheques if parcels are desired to be forwarded by mail. Single copies of Specifications, 1s. per copy, post free.

Printed Specifications are on sale at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart.

Applications for Letters Patent for the period 1904 to 1910 were numbered from 1 to 20,337; for the period 1911 to 1915 from 1 to 18,302; a new series of numbers was commenced on the 1st January, 1916. To avoid confusion when purchasing Specifications, the number, year, and name of applicant for Letters Patent should be quoted.

**Letters Patent Sealed.**

Applications for enlargement of the time for payment of the renewal fee may be made on Form P.

The page and year quoted in last column refer to the Journal in which the notice of acceptance of Complete Specification was published.

Names of actual inventors, communicators, assignors, &c., who are not grantees, are added in parentheses after the name of the grantee.

No	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1916. <i>22nd March, 1918.</i>				
984	11 May	A. R. Pullen ...	Bonding tramway, &c., joints ...	1217/17
2637	23 Nov.	G. Meredith ...	Post boring machine ...	1170/17
2681	30 Nov.	A. C. Ionides, jun. ...	Combustion of gaseous mixtures	1193/17
1917.				
3817	27 Apr.	D. P. O'Keefe ...	Trailers for automobiles ...	1243/17
4640	19 July	R. Gittins ...	Root harvesting machines ...	1243/17
1916.				
4760	2 Aug.	E. Sterns ...	Vehicle tyres ...	1243/17
1917.				
5085	6 Sept.	G. W. Stout ...	Package tying devices ...	1243/17

Letters Patent Sealed—continued.

No.	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1916. <i>23rd March, 1918.</i>				
2738	5 Dec.	The British United Shoe Machinery Co. of Australia Pty. Ltd. (G. Goddu)	Making and inserting fastenings...	1243/17
2739	5 Dec.	The British United Shoe Machinery Co. of Australia Pty. Ltd. (Hannah Ashton—O. Ashton (deceased)).	Boot assembling machines	1243/17
2757	7 Dec.	The British United Shoe Machinery Co. of Australia Pty. Ltd. (A. Eppler)	Boot turning machines	1243/17
2765	8 Dec.	The Universal Music Co. Ltd. (W. E. Evans)	Sound reproducing machines	1243/17
4031	20 July	J. A. Hyle & J. W. Herman	Metallic railway ties, &c.	1243/17
1917.				
4426	29 June	Dr. L. A. & A. J. Sanders	Coating objects	1243/17
4741	30 July	W. L. & A. McD. Shand	Gas burners	1243/17
1916. <i>25th March, 1918.</i>				
2168	25 Sept.	P. E. White	Chaff-cutter knife	1243/17
2642	24 Nov.	D. Taylor	Binder files	387/17
2645	25 Nov.	F. Cotterell	Glass polishing machines	971/17
1915.				
2716	2 Dec.	J. W. Cryer & N. Mangnall	Belt driving gear	1217/17
1917.				
4591	16 July	A. Corrie	Capturing fruit fly	1217/17
1917. <i>28th March, 1918.</i>				
2940	5 Jan	J. O. Brook & A. Rogers	Reaper-thrasher attachment	1003/17
3403	6 Mar.	J. Chaplain	Fly traps	1066/17
3462	13 Mar.	G. T. Spaul	Examining handwriting	1217/17
3588	28 Mar.	P. Ellis	Preserving jars	1243/17
1916. <i>3rd April, 1918.</i>				
1583	24 July	G. R. Gordon & F. B. Stephens	Converting nightsoil into manure	1217/17
2678	29 Nov.	R. Robertson	Scratching boards	1170/17
2726	2 Dec.	J. Hainsworth	Unhairing hides	1243/17
2740	5 Dec	M. Steinberg (The E. C. Brown Co.—C. Brown)	Spray pumps	1243/17

Agreement to Assign Letters Patent.**1913.**

7982. "An improved gas water heater."

Agreement dated 31st Aug., 1914, *by* Phillip Cuthbert BOOTY to conditionally assign to Elizabeth Jane CROAKER, of The Avenue, Windsor, Victoria, a one-third share or interest in these Letters Patent. Registered 26th Mar., 1918.

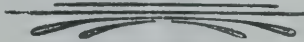
1914.

13,598. "Improved valve device for air gas machines."

Agreement dated 31st Aug., 1914, *by* Phillip Cuthbert BOOTY to conditionally assign to Elizabeth Jane CROAKER, of The Avenue, Windsor, Victoria, a one-third share or interest in these Letters Patent. Registered 26th Mar., 1918.

14,176. "Improved valve device for regulating and controlling the delivery and pressure of air or air gas from a compressor."

Agreement dated 31st Aug., 1914, *by* Phillip Cuthbert BOOTY to conditionally assign to Elizabeth Jane CROAKER, of The Avenue, Windsor, Victoria, a one-third share or interest in these Letters Patent. Registered 26th Mar., 1918.

**Renewal Fees Paid.**

(Names in parentheses indicate original grantees)

1911.

No.	Name.	Abbreviated Title.	Paid up to—
721	Moss, E.	Clamping motor wheel rim ...	23rd Mar., 1925
801	Halstead, A. F., & Rogerson, A. C.	Fire-box stay-head ...	3rd Apr., 1925
802	Godfree, E. G.	Telephone toll recorder ...	3rd Apr., 1925
927	The J. G. Brill Co.	Vehicle truck ...	19th Apr., 1925
1072	Amalgamated Wireless (Australia) Ltd. (Gesellschaft für Drahtlose Telegraphie m.b.H.)	Producing electrical oscillations...	2nd May, 1925
2352	Schwechten, W.	String instrument frame ...	15th May, 1925

1912.

4425	Western Electric Co. Ltd. (Field, J. C.)	Electric Signalling ...	30th Mar., 1925
5091	Murex Magnetic Co. Ltd., & Lockwood, A. A.	Ore treatment ...	1st June, 1925

Patents Void through Non-payment of Renewal Fees.

(Names in parentheses indicate original grantees.)

1910.

No.	Name.	Abbreviated Title.	Patent Ceased.
17,438	Cockell, T. W. (Dockrey, E. S.)	Sheep shears ...	21st Mar., 1917
17,445	Brockway, E. J., & Phillips, E. B.	Fans ...	21st Mar., 1917
17,449	Bodycomb, B. ...	Chaff-cutter ...	21st Mar., 1917
17,451	Feld, W. ...	Obtaining sulphur ...	21st Mar., 1917
17,452	Pickering, P. S. U., & Voss, W. A.	Fungicides ...	22nd July, 1916
17,455	Lunzer, J., Fleischmann, S., & Stroh, S.	Seal ...	21st Mar., 1917
17,456	Stromberg, A., & Willis, G. M.	Meters ...	21st Mar., 1917
17,460	McIntosh, W. E. ...	Flooring ...	22nd Mar., 1917
17,464	Turri, G. G. ...	Feeding machines ...	22nd Mar., 1917
17,466	R. Hoe & Co. ...	Printing machines ...	22nd Mar., 1917
17,467	Mono Service Vessels Ltd. ...	Paper tubes... ..	22nd Mar., 1917
17,468	S. & M. Drill Co. ...	Drill ...	22nd Mar., 1917
17,469	Ingersoll-Rand Co. ...	Hammer tools ...	22nd Mar., 1917
17,472	Shearer, D. ...	Strippers ...	22nd Mar., 1917
17,473	Serrell, L. W. ...	Vacuum cleaners ...	22nd Mar., 1917
17,474	Vagg, J. H. ...	Shaft couplings ...	22nd Mar., 1917
17,475	Winters, R. G. ...	Wire hangers ...	22nd Mar., 1917
17,476	Carlson, C. A. ...	Motor vehicles ...	25th May, 1916
17,479	White, H. H. ...	Wind shields ...	22nd Mar., 1917
17,482	Russell, J. E., & Duncan, T. ...	Strainer ...	23rd Mar., 1917
17,486	Norris, W. H. W. ...	Ploughs ...	23rd Mar., 1917
17,489	Joyce, F. A. M. ...	Drills ...	24th Mar., 1917
17,491	Nightingall, V. C. J. ...	Destroying fungus ...	24th Mar., 1917
17,492	Kirby, C. L. ...	Bore sinker ...	24th Mar., 1917
17,495	Rose, J. ...	Metallic vessels ...	24th Mar., 1917
17,496	Palmer, F. J. & E. A. ...	Coat fronts ...	24th Mar., 1917
17,498	Foster, E. ...	Attaching insulation ...	24th Mar., 1917
17,499	Anderson, A. ...	Closing vessels ...	24th Mar., 1917

R. G. FERGUSON,
Deputy Commissioner of Patents.

DEPARTMENT OF PATENTS.—PRICE LIST OF PUBLICATIONS.

Patents, Trade Marks, and Designs Acts are on sale at the Government Printing Offices in Sydney, Brisbane, Adelaide, Perth, and Hobart.

Printed Specifications of Inventions and Regulations under Patents, Trade Marks, and Designs Acts are on sale at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart.

Publications in the following list are on sale at the Government Printing Office, Melbourne:—

	Price.		Price.
Patents Act 1903	... 8d.	Patents Act 1909	... 3d.
Patents Act 1906	... 3d.	Patents Act 1903-1909	... 1s.
Patents, Trade Marks and Designs Act 1914	...		6d.
Patents, Trade Marks and Designs Act (No. 2) 1914	...		6d.
Patents, Trade Marks and Designs Act 1915	...		3d.
Patents Act (Partial Suspension) Act 1916	...		3d.
Patents Regulations, 1912	...		1s. 6d.
Statutory Rules 1913, No. 310; 1914, Nos. 69, 174, 188; 1915, No. 267; 1916, Nos. 45, 66, 140, 161, 162, 220, 256; 1917, Nos. 22, 283; 1918, No. 36	each		3d.
Commonwealth of Australia Gazettes—Patent Office Special Numbers.			
Nos. 34, 49, 52, 56, 60, 69, 72 of 1904; No. 2 of 1905	each		4d.
Classification of Manufactures and Word Index (edition of 1916, 280 pp.)	...		2s. 6d.
Library Classified Catalogue, including supplement (<i>post free</i>)	...		1s.
THE AUSTRALIAN OFFICIAL JOURNAL OF PATENTS (<i>post free</i>)—			
Weekly Numbers, published every Tuesday	...	each	6d.
Annual Subscription (including Volume of Statistics and Indexes)	..	...	25s.
Complete Annual Volumes—			

Journals.	Indexes.	Journals.	Indexes
...	Vol. 1, 1904	Vol. 14, 1911	Vol. 15, 1911
Vol. 2, 1905	Vol. 3, 1905	Vol. 16, 1912	Vol. 17, 1912
Vol. 4, 1906	Vol. 5, 1906	Vol. 18, 1913	Vol. 19, 1913
Vol. 6, 1907	Vol. 7, 1907	Vol. 20, 1914	Vol. 21, 1914
Vol. 8, 1908	Vol. 9, 1908	Vol. 22, 1915	Vol. 23, 1915
Vol. 10, 1909	Vol. 11, 1909	Vol. 24, 1916	Vol. 25, 1916
Vol. 12, 1910	Vol. 13, 1910	Vol. 26, 1917	Vol. 27, 1917

Vol. of Journal with corresponding Vol. of Indexes ... 25s.
Vols. of Indexes only may be obtained at 7s. 6d. each from Vol. 1 to Vol. 17, and at 10s. each from Vol. 19 onwards

PRINTED COPIES OF SPECIFICATIONS—

Single copies (including postage)	...	1s.
Parcels of 30 specifications (exclusive of postage)	...	20s.
Specifications of one Group as issued (up to 80 copies), subscription in advance (exclusive of postage)	...	40s.
Complete sets as issued (exclusive of postage)	... per copy	4d.
Average weight for parcels posted:—30 specifications, 1½ lbs.; 50, 3 lbs.; 100, 4 lbs.		

THE AUSTRALIAN OFFICIAL JOURNAL OF TRADE MARKS (*post free*)—

Weekly Numbers, published every Friday	...	each	6d.
Annual Subscription (including Vol. of Name Index and Proceedings)	...	...	25s.
Complete Annual Volumes—Vols. 1 to 12, Applications and Proceedings.			
Name Index and Proceedings, Commonwealth and State—			
1906-7; 1908; 1909; 1910; 1911; 1912	...	each	7s. 6d.
1913; 1914; 1915; 1916; 1917	...	each	5s.
Constituent Particulars of Trade Marks—			
Vol. 1, 1906-7	... 7s. 6d.	Vol. 6, 1913	... 7s. 6d.
Vol. 2, 1907-9	... 15s.	Vol. 7, 1914	... 7s. 6d.
Vol. 3, 1909-10	... 11s. 6d.	Vol. 8, 1915	... 7s. 6d.
Vol. 4, 1911	... 7s. 6d.	Vol. 9, 1916	... 7s. 6d.
Vol. 5, 1912	... 7s. 6d.	Vol. 10, 1917	... 7s. 6d.
Trade Marks Act 1905	... 8d.	Trade Marks Act 1905-1912	... 8d.
Trade Marks Rules—Statutory Rules 1913, No. 339	...	...	1s. 3d.
Statutory Rules 1914, Nos. 8, 175, 189; 1916, Nos. 64, 221; 1917, No. 291	...	each	3d.
Designs Act 1906	... 5d.	Designs Act 1912	... 3d.
Designs Rules—Statutory Rules 1907, No. 51	...	...	5d.
Statutory Rules 1913, No. 173; 1914, Nos. 176, 190; 1916, Nos. 65, 222	...	each	3d.
Designs Indexes—1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, and 1917	...	each	1s.

Application Forms according to the Schedules to the Patents Act 1903-1909, Trade Marks Act 1905-1912, Designs Act 1906-1912 and the Patents, Trade Marks and Designs Act 1914-1915, may be obtained on application at the Department of Patents, Second Floor, Railway Buildings Flinders-street, Melbourne.

FEES.

	£	s.	d.		£	s.	d.
On filing application for patent ...	1	0	0	On application for restoration of lapsed patent ...	20	0	0
On acceptance of complete specification ...	2	0	0	On notice of opposition to application for restoration of lapsed patent ...	2	0	0
For preparation of patent for sealing ...	5	0	0	For duplicate of Letters Patent each ...	2	0	0
On the expiration of the seventh year of the period of the patent ...	5	0	0	On application for a compulsory licence. By person applying ...	5	0	0
On filing notice of opposition ...	2	0	0	On opposition to grant of compulsory licence. By opponent ...	3	0	0
On application for enlargement of time for lodging complete specification ...	1	0	0	On application to lodge further evidence under Regulation 141. By person making application ...	2	0	0
On application for extension of time under Regulation 31—				On hearing by Commissioner of application to lodge further evidence, under Regulation 141. By applicant and by opponent respectively ...	1	0	0
Not exceeding one month ...	2	0	0	On offer to surrender a patent under section 86A ...	1	0	0
Not exceeding two months ...	4	0	0	On application to Court for extension of patent ...	10	0	0
Not exceeding three months ...	6	0	0	On entering caveat ...	5	0	0
On application for extension of time for acceptance of complete specification—				On application for entry of an Assignment, Transmission, Agreement, Licence, or Extension of Patent ...	1	0	0
Not exceeding one month ...	1	0	0	On request to be informed of any application for the entry in the Register of the name of a person by assignment or other document affecting the proprietorship of a patent ...	0	10	0
Not exceeding two months ...	2	0	0	On application to alter name or address in Register ...	0	10	0
Not exceeding three months ...	3	0	0	On application to correct clerical error in Register ...	0	10	0
On appeal from Commissioner to Law Officer ...	3	0	0	On application to correct clerical error. Before sealing ...	0	5	0
On application to lodge further evidence in Opposition Cases. By person making application ...	2	0	0	On application to correct clerical error. After sealing ...	0	10	0
On hearing by Commissioner of application to lodge further evidence in Opposition Cases. By applicant and by opponent respectively ...	1	0	0	Office copies of documents, for every 100 words, but never less than One shilling ...	0	0	6
On hearing by Commissioner in Opposition Cases. By applicant and by opponent respectively ...	1	0	0	For examination of copies not made in office, for every 100 words, but never less than One shilling ...	0	0	3
On application to amend specification. Before sealing ...	2	0	0	For office copies of drawing, sun prints ... per sheet	0	1	0
On application to amend specification after lodgment of notice of opposition ...	3	0	0	For office copies of drawings (according to agreement).			
On application to amend specification. After sealing ...	3	0	0	For examination of drawings or sun prints not made in the office, but never less than One shilling per sheet	0	0	6
On lodging notice of opposition to application to amend ...	2	0	0	For certificate of Commissioner under section 28 of the Act or under Regulation 130 ...	0	5	0
On hearing by Commissioner of application to amend. By applicant and by opponent respectively ...	1	0	0	Search or inspection fee each ...	0	1	0
On application to amend specification during action for infringement or proceeding for revocation ...	3	0	0	Annual search fee ...	5	0	0
On request to amend any document under Regulation 147 ...	2	0	0	Examination entry fee by candidate for Patent Attorney's examination ...	2	0	0
On application for enlargement of time for sealing a patent—				Fee for registration as a Patent Attorney ...	5	0	0
Not exceeding one month ...	2	0	0	Annual fee payable by a Patent Attorney ...	2	0	0
Not exceeding two months ...	4	0	0	Additional fee for restoration of Patent Attorney's name to Register ...	0	10	0
Not exceeding three months ...	6	0	0				
On enlargement of time for payment of renewal fees—							
Not exceeding three months ...	2	0	0				
Not exceeding four months ...	2	13	4				
Not exceeding five months ...	3	6	8				
Not exceeding six months ...	4	0	0				
Not exceeding seven months ...	4	13	4				
Not exceeding eight months ...	5	6	8				
Not exceeding nine months ...	6	0	0				
Not exceeding ten months ...	6	13	4				
Not exceeding eleven months ...	7	6	8				
Not exceeding twelve months ...	8	0	0				

Patents (Temporary) Regulations 1914.—Fee.

On application for the avoidance or suspension of patent rights or licence ...	2	0	0
--	---	---	---

Fees must be tendered in cash or postal note or in money order payable to the Commissioner of Patents, Melbourne, to whom all communications must be addressed.

60
Au 7
log 2

Vol. 28.]

1918.

[No. 47.

Tuesday, 10th December.

[Registered at the General Post Office, Melbourne, for transmission by post as a newspaper.]

THE
Australian Official Journal
of Patents.



Notices.

Applications Received, 9401 to 9450.
Commonwealth Proceedings.

PRICE (including postage) :—Single Copy, 6d. Annual Subscription (including volume of Statistics and Indexes), 25s. Obtainable at the Government Printing Office, Melbourne.

By Authority:

H. J. GREEN, ACTING GOVERNMENT PRINTER, MELBOURNE.

C.18843.

War Savings Certificates

These are Government bonds, issued in denominations of £1, £5, £10, £50, £100, and £1,000

£0 17s. 6d.	will buy a	£1 Certificate
£4 7s. 6d.	„ „ „	£5 „
£8 15s.	„ „ „	£10 „
£43 15s.	„ „ „	£50 „
£87 10s.	„ „ „	£100 „
£875	„ „ „	£1,000 „

The Certificates are repayable at their face value three years from date of purchase, which is equal to $4\frac{1}{2}$ per cent. compound interest on the amount of the purchase money. In case of need, if a sufficient reason can be given, any bank will cash the Certificates, with 3 per cent. interest to the date of cashing.

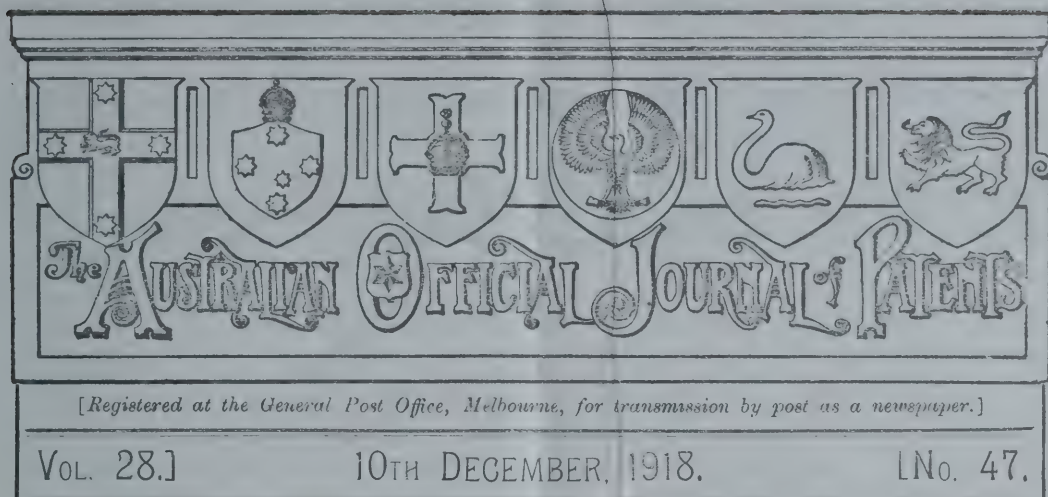
*You can buy Certificates at all Banks and Money Order Post Offices,
or you can join*

A War Savings Group

and by making regular subscriptions, obtain your Certificates from the Group's Trustee.

Further information may be obtained from—

The Secretary, Victorian War Savings Committee,
123 Queen Street, Melbourne.



All communications to be addressed to the Commissioner of Patents, Railway Buildings,
Melbourne, Victoria.

[The Department of Patents does not guarantee the accuracy of its publications, or
undertake any responsibility for errors or omissions or their consequences.]

CONTENTS.

Notice—	Page	Commonwealth—continued	Page
Warning to the Public	1169	Specifications open to Public Inspection before Acceptance	1175
Subscriptions for 1919	1170	Complete Specifications Accepted	1176
Commonwealth—		Illustrated Notes	1177
Applications Received	1170	Commonwealth Specifications	1192
Provisional Specifications Accepted	1173	Letters Patent Sealed	1193
Applications with Provisional Specifications Lapsed, Abandoned, or Withdrawn	1173	Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed	1194
Complete Specifications Lodged	1174	Assignment Registered	1195
Applications with Complete Specifications (not open to Public Inspection) Lapsed, Refused, Abandoned, or Withdrawn	1174	Licences Registered	1195
Applications with Complete Specifications (open to Public Inspection) Lapsed, Refused, Abandoned, or Withdrawn	1174	Renewal Fees Paid	1195
		Patents Void through Non-payment of Renewal Fees	1195

NOTICES.

WARNING TO THE PUBLIC.

The Public are notified that entries in the *Australian Official Journal of Patents* under the headings—

- Applications with Provisional Specifications Lapsed.**
- Applications with Complete Specifications Lapsed.**
- Applications with Complete Specifications (open to public inspection) Lapsed.**
- Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed.**
- Patents void through non-payment of Renewal Fees.**

must not be accepted as final, as under Regulations 7 and 8 of the Patents (Temporary) Regulations 1914 the Minister or the Commissioner may in certain cases defined in the Regulations extend the time prescribed by the *Patents Act* 1903-1909 for doing any act or filing any document.

The Patent Office will furnish, on request accompanied by the prescribed search fee of One Shilling, definite information, so far as possible, as to the position of any particular Application or Patent.

NOTICES—*continued.*

Subscriptions for 1919.

Subscribers are reminded that, to ensure continuity in the delivery of the *Australian Official Journal of Patents*, it is necessary that remittances should be paid to the Government Printer, Melbourne.

The annual subscription, 25s., which should be paid as early as possible in January each year, entitles subscribers to receive (free) the annual volume of Statistics and Indexes for the current year.

COMMONWEALTH.

PROCEEDINGS UNDER THE "PATENTS ACT 1903-1909."

**List of Applications for Letters Patent received from
28th November to 4th December, 1918.**

The abbreviations "Prov." and "Comp." after the numbers indicate respectively that a Provisional or Complete Specification was lodged with the Application.

Thursday, 28th November.

9401. *Prov.* William Henry COAD and Ernest Henry JOLLY—

"Petrol filter."

9402. *Prov.* William Edward LAKE—

"Horse-collar."

9403. *Comp.* Basil Heber TILSTON and Thomas MELBOURNE—

"Improvements in or relating to the treatment of hides, skins or other goods."

9404. *Comp.* William Frederick COTRELL—

"Improvements in flexible covers for laminated vehicle springs."

9405. *Comp.* William Wilsden McRAE—

"Improvements in and relating to rims for the wheels of motor-cars and other vehicles."

9406. *Prov.* Francis Richard COOLING—

"Improved apparatus for transposing the musical key of perforated records used with mechanical piano players."

9407. *Prov.* William DOWLING—

"Improvements in and relating to wind operated mechanism."

9408. *Prov.* Charles KENDRICK—

"Improvements in saws."

9409. *Prov.* James CASH—

"Improvements in sockets and shell sockets for taper shank tools."

9410. *Prov.* THE GRAINING COMPANY LIMITED, assignee of Arthur John BULL, *act. inv.*—

"Appliance for removing paint and the like."

Friday, 29th November.

9411. *Prov.* John William TURNER—

"Improvements in water heaters."

9412. *Comp.* William FAIRCLOUGH—

"Improvements in and relating to casks or barrels."

Applications received, 28th November to 4th December—continued.

9413. *Prov.* THE BRITISH UNITED SHOE MACHINERY COMPANY OF AUSTRALIA PROPRIETARY LIMITED, *assignee of* Charles Frederick Pym, *act. inv.*—

“Improvements in or relating to machine for conforming boot or shoe uppers to lasts.”

9414. *Comp.* Erik Hjalmar WINGQVIST—

“Improvements in machines for cutting gear wheels.”

9415. *Comp.* George Montague BOWSER—

“An improved method of constructing tarred paving.”

9416. *Comp.* Frederick Le Roy TRACY—

“An improved binding plate for office letter files and the like.”

9417. William B. LUCAS.

[Date applied for under International or Intercolonial Arrangements, 30th Nov., 1917, being date of application in United States of America.]

“Electric vaporizer and heater.”

Saturday, 30th November.

9418. Lily MOTE.

[Application under International or Intercolonial Arrangements.]

“Bed attachment for adjusting the position of an invalid.”

9419. Lily MOTE.

[Application under International or Intercolonial Arrangements.]

“Detachable folding chair and bedrest.”

9420. *Prov.* Walter Burley GRIFFIN, *act. inv.*, and David Charles JENKINS, *assignee*—

“Improvements in and relating to roof tiles and like structural elements.”

Monday, 2nd December.

9421. *Prov.* Herbert CARLETON and Hunter CHILCOT—

“Scrubbing brush attachment.”

9422. *Prov.* Griffith DEACON—

“An improved pipe wrench.”

9423. *Prov.* Edward Robert DONOVAN—

“Wood leather and process therefor.”

9424. *Prov.* Roland George PEARSON, *agent of* Alfred Theodore KWAJEL, *act. inv.*—

“Improvements in and relating to magneto electric machines for engine ignition purposes.”

9425. *Prov.* Henry ALLEN—

“Improvements in and relating to onion harvesters and other agricultural machines.”

9426. *Prov.* Charles STACEY—

“An improved machine for making wooden clothes pegs and other like articles.”

9427. *Prov.* Horace WILLIAMS—

“An improved pipe for blowing bubbles.”

9428. S. J. WATERS.

[Date applied for under International or Intercolonial Arrangements, 4th Dec., 1917, being date of application in Great Britain, No. 17,938/17.]

“Method of reproducing manuscript, typewritten or printed matter, drawings, photographs and the like.”

9429. *Prov.* William Robert LORD—

“Improvements in churns.”

9430. *Prov.* William SILVER—

“Improvements in butter-making churns.”

9431. *Prov.* Albert Arthur ARMSTRONG—

“Improvements in stretcher frame bed mattresses.”

9432. *Prov.* Sidney John ROBINSON—

“Improvements in additional air valve attachments for engine carburettors.”

Tuesday, 3rd December.

9433. James PENNYCOOK and John HEALD.

[Date applied for under Intercolonial Arrangements, 1st Oct., 1918, being date of application in New Zealand.]

“Improved identification ‘number plate’ or number holder for motor cars, &c.”

9434. *Prov.* Francis Henry STAPLETON and Fred LEWIS—

“Improvements in and connected with wardrobes.”

Applications received, 28th November to 4th December—continued.

9435. *Prov.* Stephen JOHNS—

"An improved automatic sash fastener for locking window sashes at any desired position."

9436. *Comp.* John STUART, *act. inv.*, and Philip John de la Fontaine WINCH, *assignee*.

[Application for Patent of Addition to No. 4523/17.]

"Improvements in resilient wheels."

9437. *Prov.* Percy Charles BARTON—

"Improvements relating to single furrow mould board plows."

9438. *Prov.* Percy Charles BARTON—

"An improved implement for cutting bracken fern and similar growths."

9439. *Prov.* Louis Vincent DIAMANTI—

"Improvements in cabinets, cupboards, desks and like articles of furniture provided with drawers and compartments."

9440. *Prov.* Leslie Victor LEONARD—

"Improvements in electric heating appliances."

9441. *Prov.* AMALGAMATED ZINC (DE BAVAY'S) LIMITED, *assignee of* Harry HEY, *act. inv.*—

"Improvements in the recovery of lead and silver from sulphide ores and metallurgical products."

9442. *Prov.* ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA PROPRIETARY LIMITED, *assignee of* Herbert William GEPP, *act. inv.*—

"Improvements in the treatment of zinc bearing ores."

9443. *Prov.* ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA PROPRIETARY LIMITED, *assignee of* Herbert William GEPP, *act. inv.*—

"Improvements in the treatment of zinc bearing ores."

9444. *Prov.* ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA PROPRIETARY LIMITED, *assignee of* Royale Hillman STEVENS, *act. inv.*—

"Improvements in the recovery of zinc by electrolysis."

9445. *Prov.* Robert Thompson DUNN—

"Improvements in brooms."

9446. *Prov.* Charles Henry ANDERSON—

"Improved interlocking roofing tile."

Wednesday, 4th December.

9447. *Prov.* David Charles DAVIDSON—

"An improved tap for cutting internal screw threads."

9448. MOTALA VERKSTADS NYA AKTIE-BOLAG.

[Date applied for under International or Intercolonial Arrangements, 6th Dec., 1917, being date of application in Sweden, No. 4021/17.]

"Feeding device for pulverulent fuel."

9449. *Prov.* John RICHARDS—

"Combination seating and table flap construction."

9450. *Prov.* Madaline Daisy HIGGINS—

"Improvements in and relating to curtain dryer."



Provisional Specifications Accepted.

*Names in parentheses indicate actual inventors, &c., who are not applicants.
Italics indicate that some amendment has been made.*

1917.

5974. Devine, W. Preventing blow-fly on sheep.

1918.

6364. Moore, F., & Kinnear, W. *An improved device for holding horses.*
6546. Lock, F. Fly-proof screen.
7030. Du Faur, J. B. *An improved apparatus for the concentration of ores by flotation.*
7452. Chester, A. W., Paterson, C. F., & Gillis, R. G. *Improved water heater for domestic and other uses.*
7823. Chandler, H. W. *A metal polish made from coal ash.*
8093. Lewis, J. *Improvements in aeroplanes.*
8167. Flowers, A., *nominee of Frederick Harold Strom, act. inv.* *An improved device for sealing mailbags and the like.*
8334. Watson, C. W. Grinding and polishing machines.
8382. Garwood, A. W. *Improvements in and relating to the manufacture of rotary brushes.*
8566. Forster, E. H. *An improved trap nest.*
8577. Neal, H., & Redgen, F. T. Mixture for stopping punctures in tyres.
8674. Leventhal, H. *Pillage resisting knock down packing cases.*
8770. Slingsby, F., Zalocostas, D. G., & Edwards, F. W. Electric lighting switch.
8817. Hannam's Ltd. (Hannam, W. H.). Water spraying nozzles.
8823. Gregory, E. O. Plunger pumps.
8828. Lane, E. S. Search and theatrical light controller.
8842. Bradshaw, W. Power transmission gearing.
8857. Monks, H. W. Direct-acting steam pumps.
8861. Turner, W. A. Joining picture films.
8862. Ellis, W. C. Thigh boots.
8874. Freeman, C. J. Support for footwear.
8891. Fenwick, R. H. Composite split pulley and hub.
8911. Bates, A. W. Insect traps.
8948. Wilson, P. Stocking suspender clip.
9003. Brown, C. L. Bottle stopper and screw-driver.
9014. Tait, Isabel H. Sealing compound for tinned goods.
9072. Boll, W. H. P. Electro deposition of metals.
9086. Johnston, G. G. Calcining and smelting metalliferous ores.
9099. Roberts, F. W. Recovery of gold and copper.
9246. Levy, P. M., & Thompson, A. H. Domestic cool safe.

**Applications with Provisional Specifications Lapsed,
Abandoned, or Withdrawn.**

Names in parentheses indicate actual inventors, &c., who are not applicants.

1918.**Lapsed.**

- | | | |
|--------------------------------------|---|------------------------|
| 6376. Hammond, F., & Holloway, A. I. | 6388. Grant, J., & Adams, G. | 6411. Edwards, C. T. |
| 6378. Grieve, R. | 6389. Dudley, C. C. | 6421. Lee, L. |
| 6379. Tuck, N. A. | 6390. Moss, A. | 6422. Bindley, E. H. |
| 6380. Geyer, A. T. | 6391. McCabe, M. J. | 6423. Brogan, W. |
| 6384. Halliday, A. W., & MacIver, E. | 6396. Ferris, H. | 6425. Charley, W. G. |
| | 6398. Murray, D. | 6427. Pullar, V. A. M. |
| | 6403. Christie, C. E., & Gardiner, T. D. S. | 6428. Holmes, C. T. |
| 6387. Burton, W. B. | 6404. Harris, J. | 6429. Stevens, A. & F. |
| | | 6432. Hall, J. R. |

Complete Specifications lodged after Provisional Specifications.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. The date following the title is that on which the Complete Specification was lodged.

1918.

6364. Frank MOORE and William KINNEAR—

"An improved device for holding horses." 25th Nov., 1918.

6409. Francis James FOSTER, George Hugh FOSTER, and Jervis George BLACKMAN—

"Improved junction means for woodwork and the like." 30th Nov., 1918.

6434. James Semmens ALLEN—

"Improved smelting furnace." 3rd Dec., 1918.

6440. Douglas Henry STOKES—

"Improvements in refrigerating apparatus." 4th Dec., 1918.

6483. Edward MORRISON—

"An improved fastener for fruit cases." 4th Dec., 1918.

6689. Joseph William SUTHERLAND—

"Method of and means for washing clothes and the like." 2nd Dec., 1918.

6704. John Tinline MOWAT—

"Improved food preparation for live stock." 4th Dec., 1918.

6710. Stanley George ANTHONY—

"An improved water distributing pot." 3rd Dec., 1918.

6786. Mark Edward HECTOR—

"Improvements in and relating to window or door frames and fly screens." 4th Dec., 1918.

8129. Henry Louis ANDERSON and Joseph Thomas HOARE—

"Reinforced concrete coffin." 4th Dec., 1918.

8273. James Clason GATES (Albert Edward SHIRLOW and Henry William HOARSE, *act. invs.*)—

"Apparatus for automatically dipping, cutting, forming, trimming and delivering the strawboard, paper, or like capsules or ends of strawboard, paper and like containers." 2nd Dec., 1918.

Applications with Complete Specifications (not open to Public Inspection) Lapsed, Refused, Abandoned, or Withdrawn.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. Names in parentheses indicate actual inventors, &c., who are not applicants.

Lapsed.

5001. Telford, Sadie A. B.

5017. Rule, G.

1917.

Abandoned.

5891. The Mantle Lamp Co. of America (Davis, C. W.)

1918.

Abandoned.

6325. Selth, G. W., & Knowles, W. W.

Applications with Complete Specifications (open to Public Inspection) Lapsed, Refused, Abandoned, or Withdrawn.

Complete Specifications under Section 63A have their Cognate Provisionals indicated in brackets. Names in parentheses indicate actual inventors, &c., who are not applicants.

1918.

Abandoned.

6982. Corrado, A., & Clerici, G.

Specifications open to Public Inspection before Acceptance,

UNDER SECS. 121 AND 122, "PATENTS ACT 1903-1909."

The specifications may be inspected at the Patent Office, Melbourne, on payment of the search fee of One Shilling in respect of each Application.

Typed copies of specifications will be supplied at Sixpence per 100 words (minimum charge, One Shilling).

Sun prints of drawings will be supplied at One Shilling per foolscap folio sheet (8 inches x 13 inches).

Fees must be tendered in cash or postal note or in money order, payable to the Commissioner of Patents, Melbourne.

1917.

5954. Joseph Louis Adhemar BOREL and Emilie GRANGE, *née* BOREL.

[Date applied for under International or Intercolonial Arrangements, 9th Oct., 1916, being date of application in France; open to public inspection 29th Nov., 1918.]

"Improvements in or relating to machines for manufacturing press buttons or the like."

6148. Enoch RECTOR. The specification accompanying this application, notified in *The Australian Official Journal of Patents*, Vol. 28, No. 41, p. 1024, as open to public inspection, has been withdrawn from public inspection by direction of the Deputy Commissioner of Patents, dated 27th November, 1918.

1918.

8481. Edwin EDSER, Stanley TUCKER, and MINERALS SEPARATION LIMITED.

[Date applied for under International or Intercolonial Arrangements, 13th Sept., 1917, being date of application in Great Britain, No. 13,131/17; open to public inspection 2nd Dec., 1918.]

"Improvements in or relating to the concentration of ores."

8624. Edgar Arthur ASHCROFT.

[Date applied for under International or Intercolonial Arrangements, 28th Aug., 1917, being date of application in Great Britain, No. 12,363/17; open to public inspection 30th Nov., 1918.]

"Improvements in the extraction and recovery of potash, or potassium salts from potash-bearing materials."

8656. Henry Theophilus JOHNSON, M.I.M.E.

[Date applied for under International or Intercolonial Arrangements, 29th Nov., 1917, being date of application in Great Britain, No. 114,789; open to public inspection 30th Nov., 1918.]

"Improvements in or relating to the separation of fats, oils or the like from liquids."

8929. Samuel Alexander POLLOCK.

[Date applied for under International or Intercolonial Arrangements, 19th Sept., 1917, being date of application in Great Britain, No. 13,473/17; open to public inspection 30th Nov., 1918.]

"Improvements in or relating to the rectification of alternating currents of electricity."

9382. Jakob Friedrich WIEDMER.

[Date applied for under International or Intercolonial Arrangements, 20th Nov., 1917, being date of application in Switzerland, No. 91,664/17; open to public inspection 21st Nov., 1918.]

"Improvements in grinding, milling and drilling attachments for lathes and other machine tools."

9417. William B. LUCAS.

[Date applied for under International or Intercolonial Arrangements, 30th Nov., 1917, being date of application in United States of America; open to public inspection 2nd Dec., 1918.]

"Electric vaporizer and heater."

Complete Specifications Accepted.

OPEN TO PUBLIC INSPECTION AT THE PATENT OFFICE, MELBOURNE.

SEARCH OR INSPECTION FEE—ONE SHILLING EACH.

Notice is hereby given that all persons interested in opposing the grant of a Patent on any one of the following applications may, at any time within three months from the date of this Journal, or within such further time not exceeding one month as may on application made within such three months be allowed, give notice at the Patent Office, in Form G, which must be accompanied by the fee of £2, tendered in cash or postal note or in money order.

Within fourteen days after the lodging of the notice of opposition, or within such further time as the Commissioner allows, the opponent shall leave at the Patent Office declarations and copies thereof in support of his opposition, and forthwith after the receipt thereof the copies shall be transmitted by the Commissioner to the applicant.

Failure by an opponent to lodge declarations shall be deemed intentional abandonment of the opposition.

1917.

- 3712. Davies, Jones, Davies, & Hale. Heat and sound insulation.
- 4387. Marchant & Tucker. Motor-car headlights.
- 4911. Wilson. Cigarette making appliance.
- 5135. Marchant & Co. Ltd. (Taylor). Multiple transfers on printing-plates.
- 5136. Stewart. Metal pipe cutting.
- 5179. Cossey. Turning headlights.
- 5524. Bernays (*Edgar William Timmis*). Coiled springs.
- 5818. Dowsing. Advertising illusion.
- 5906. The British United Shoe Machinery Co. of Australia Pty. Ltd. (United Shoe Machinery Co.—Shaw & Littlefield). Heel stiffeners.
- 5909. Blake. Clothes-line winch.
- 5913. Bourne. Mould for plaster ornaments.
- 5932. James Martin & Co. Ltd. (McNeill). Harvester comb.
- 5948. Johnson. Resilient wheel.
- 5966. Spawn. Drying oven.
- 5974. Devine. Fly-blow specific.
- 6006. Fisher. Pulp composition.
- 6027. Drysdale. Timber drier.
- 6042. Fricker. Zinc distillation.
- 6092. Jopp & Hay. Fumigating rabbits.
- 6104. Stone. Boiler furnace.
- 6152. Wallace & Tiernan. Water purification.
- 6153. Wallace & Tiernan. Treatment of water with chlorine.
- 6154. Wallace & Tiernan. Gas absorption.

1918.

- 6312. Laurie. Convertible rocking chair or cot.
- 6385. Helps. *Improvements relating to the manufacture, utilization and combustion of fuel.*
- 6418. Johnson. Billiard marker.
- 6536. Winton. Internal combustion motor.
- 6538. Eldred. Manufacturing chlorhydrins.
- 6549. Huhn. Grain drying chamber.
- 6730. Terry. *Process for the concentration of ore by flotation.*
- 6748. Thomas. Manifold strip printer.
- 6840. Dunlop Rubber Co. of Australasia Ltd. (Beard). Pneumatic tyre valve.
- 6860. Grinsted. Telephone current amplifier.
- 6868. Dicker. Water heater.
- 6869. Cederberg, Bäckström, & Kuhlberger. Production of ammonia.
- 6872. T. Dawson & Sons Ltd. (Clark). Sprinkling cap for containers.
- 6873. T. Dawson & Sons Ltd. (Dawson). Water heater.
- 6887. Vinnicombe. Draught equalizer.
- 7101. Kimber. Elevating truck.
- 7157. Miles. Talking machine reproducer.
- 7301. James Howden & Co. Ltd. (Howden). Ship's davit.
- 7401. King. Carburettor.

NOTE.—THE SURNAMES IN PARENTHESES INDICATE ACTUAL INVENTORS (OR OTHER INTERESTED PARTIES) WHO ARE NOT APPLICANTS. ITALICS INDICATE THAT SOME AMENDMENT HAS BEEN MADE.

Further information of the inventions in the above Specifications is given in the following Illustrated Notes, and the full particulars of names, addresses, and occupation or calling of persons concerned in each application are stated in the Printed Specifications.

Complete Specifications Accepted—continued.

Printed copies of the above Specifications may now be ordered from the Government Printer, Melbourne, price One Shilling each, post free for cash or postal note; the copies will be posted from Melbourne two weeks after the date of this Journal, when copies will also be forwarded to the Trade Marks Sub-offices, at the Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart, for sale on demand.

A list of Australian and Foreign Offices and Libraries at which the Printed Specifications are placed for free public inspection is given in the first Journal of each quarter.

Illustrated Notes

TO THE FOREGOING ACCEPTED COMPLETE SPECIFICATIONS.

The class numbers refer to similar inventions comprised in the Classified Subject Matter Indexes

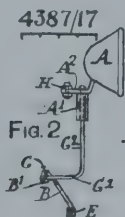
1917.

4387. 27 June. S. B. MARCHANT and H. S. TUCKER, South Australia.

Class 95.7.

Motor-car Headlights.

To direct the beams of motor headlights in accordance with the movements of the front wheels, the lamps **A** are connected by a rod **H** and are mounted on spindles **C**² rotatable in sockets **A**¹, one of the spindles having a cranked end which is pivotally linked to a cross-bar **B**, extending diagonally across the frame and attached to the steering gear connecting rod **E**.



4 figures, 2 claims.

3712. 16 Apr. J. DAVIES, W. H. JONES, J. DAVIES, and H. J. HALE, England.

Classes 29.7; 18.3; 01.1.

Heat and Sound Insulation.

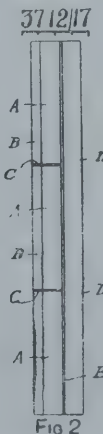
To provide a heat insulating covering for ships' decks and refrigerating chambers, which

may also be used for sound-proofing the walls and floors of buildings, slabs of compressed cork are coated with fibro-cement and secured to the surfaces by a waterproof jointing material.

The compressed granulated cork slabs **A** are coated with cement **B** composed of magnesite, magnesium chloride, and hair or fibre. Compound units may be formed by securing several units **A** to a continuous compressed cork sheet **D** by means of a bituminous joining **C, E**.

To prevent displacement in cold storage chambers, the covering is secured by galvanized iron beading, supported on hangers attached to the joists of the chambers.

In modifications, the oxychloride cement may be applied in the plastic state directly to decks, floors, or other surfaces.



7 figures, 7 claims.

Illustrated Notes—continued.

4911. 15 Aug. P. J. WILSON, N.S.W.

Sec. 63A. Including cognate No. 5342/17.

Class 33.4.

Cigarette Making Appliance.

An appliance consisting of a mould 10 and a funnel 13 into which loose tobacco is forced by a rammer 14 to form a rod, which is then wrapped in paper.

A paper tube, made by rolling paper around the rammer 14, may be secured in the mould by a ferrule 16 before ramming the tobacco into the mould.

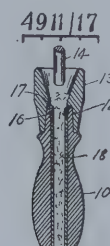


Fig. 6

7 figures, 4 claims.

5135. 11 Sept. MARCHANT & COMPANY LIMITED, New South Wales, assignee of D. R. N. TAYLOR, act. inv.

Classes 52.8; 52.4.

Multiple Transfers on Printing-plates.

To prepare manifold transfers, a series of duplicate images are photographically printed on a sensitized plate, which is intermittently adjusted. These images are then multiplied by projection on to a printing-plate intermittently moved over the prepared photographic plate, electrically illuminated by mercury tubes.

A positive or negative image at C^3 is successively projected on to portions of a sensitive plate C^1 , having screw adjustments operated by hand-wheels F^2 , H , H^1 .

In place of the multiple image one large image may be produced.

The prepared plate C^1 is then developed and fixed, and placed in a recess K over a thick glass plate k above electrically illuminated mercury tubes, exposed by a sliding shutter. The plate C^1 is adjusted by micrometer screws k^1 to register with a hinged frisket frame O . A printing-plate, block, or stone l is screwed to a clamping-frame L and moved into position above the photographic plate by manipulation of hand-wheels L^1 , M . The presser-foot N^2 is now swung over the

plate and screwed down to ensure contact. The current is switched on to the mercury tubes and the shutter withdrawn. After exposure the shutter is closed, the current is switched off, and a fresh section of the printing-plate is moved into position.

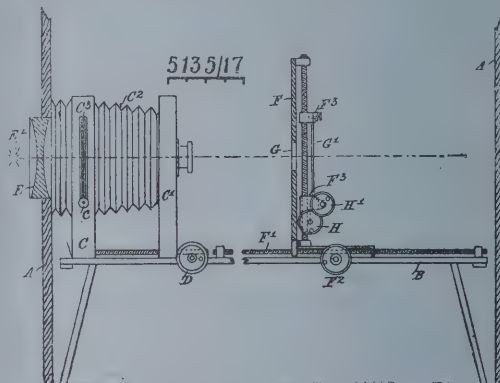


Fig. 1

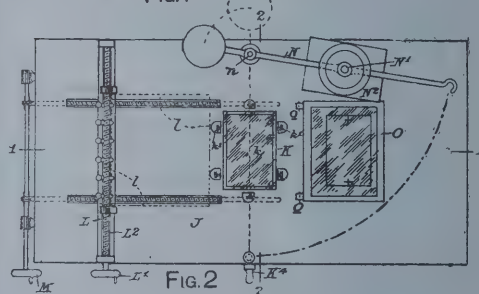


FIG. 2

4 figures, 7 claims.

5179. 15 Sept. A. COSSEY, Queensland.

Class 95.7.

Turning Headlights.

To simultaneously turn the headlights of motor-cars with the steering-wheels, lamp brackets C , rotatably mounted in bushings A , are provided with connected levers E , N . The lever E having a toothed sector F , which meshes with teeth on a sector G , connected to the steering-gear L .

In a modification, the levers H and E are directly connected.

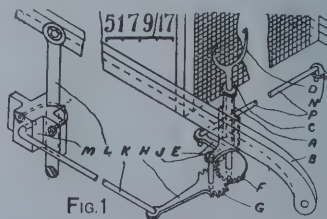


Fig. 1

2 figures, 4 claims.

Illustrated Notes--continued.

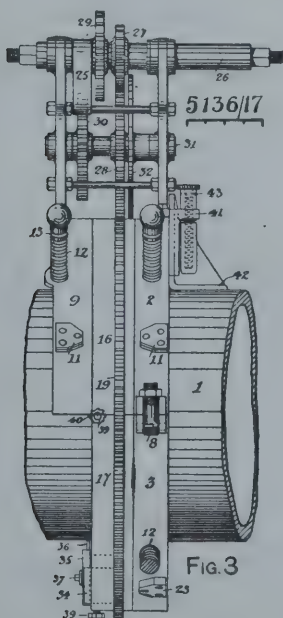
5136. 11 Sept. R. P. STEWART, New South Wales.

Class 74.6.

Metal Pipe Cutting.

To permit of cast iron pipes being cut, whilst in a trench, two or more cutting tools **36** are carried on a revolving rack ring **16-17**, operated by differential gear. The tool is fed automatically and radially toward the centre of pipe **1**, as the cut deepens, by engagement of the feed screw ratchet head **39**, with a fixed pawl **40** on a guide frame **9**.

The rack ring **16-17** is held in position by a disk wheel **32** and by anti-friction rollers carried by brackets mounted on studs **23** and by bridge members connecting studs **11** on the two guide frames **2-3** and **9**. The rack ring **16-17** and the guide frame **2-3** are each formed in two parts, hinged and bolted together. The guide frames carry centring screws **12** and an adjustable presser foot **42**.



9 figures, 7 claims.

5524. 18 Oct. C. E. BERNAYS, *communicatee of* Edgar William TIMMIS, *act. inv.*, England.

Classes 58.4; 62.4.

Coiled Springs.

To form coiled or helical springs, having spirally arranged fibres, twisted compound rods or tubes are welded or rolled into solid rods or tubes from which the springs are formed.

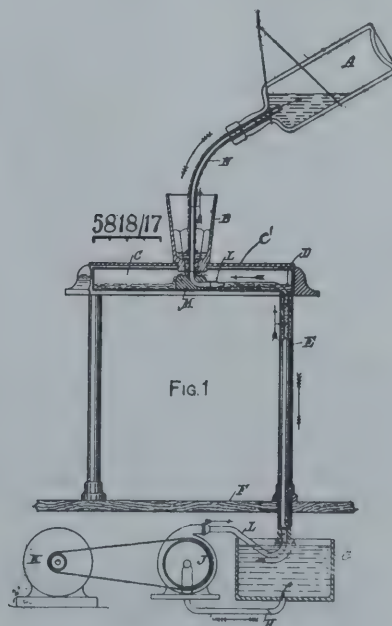
No drawing, 1 claim.

5818. 21 Nov. G. H. DOWSING, New South Wales.

Class 53.4.

Advertising Illusion.

To produce the effect of pouring from an inexhaustible bottle, liquid is pumped from the reservoir **C** through the glass tube **N** to the suspended bottle **A** from which it flows over the surface of the tube to the bottomless glass **B** and down the hollow table leg **E**.



1 figure, 3 claims.

Illustrated Notes—continued.

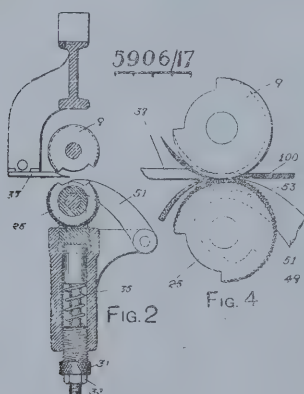
5906. 28 Nov. THE BRITISH UNITED SHOE MACHINERY COMPANY OF AUSTRALIA PROPRIETARY LIMITED, *communicatee of* UNITED SHOE MACHINERY COMPANY, *assignee of* P. W. SHAW and A. F. LITTLEFIELD, *act. invs.*, United States of America.

Class 44.51.**Heel Stiffeners.**

To cut out a series of counters from the grain side of the stock, one at a time, the stock is fed between a matrix roll **9** and a die roll **25** against a stationary knife **37**.

The matrix and die rolls are so shaped that a counter, having a thick middle portion and a continuous bevelled edge, is produced.

The roll **25**, which is resiliently mounted, is provided with a cam track **49** upon which rides a presser **51** to raise the thinned edge of the counter clear of the knife **37** during the cutting operation.



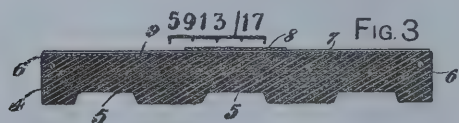
9 figures, 4 claims.

5913. 28 Nov. T. BOURNE, N.S.W.

Sec. 63A. Including cognate No. 7886/18.

Class 70.1.**Mould for Plaster Ornaments.**

A pliable mould, consisting of caoutchouc or gutta-percha moulded on a zinc former and reinforced on two sides by wires or rods **6** and at the back by a slat **7**, which is passed through a loop **8** in the fabric backing **9**.



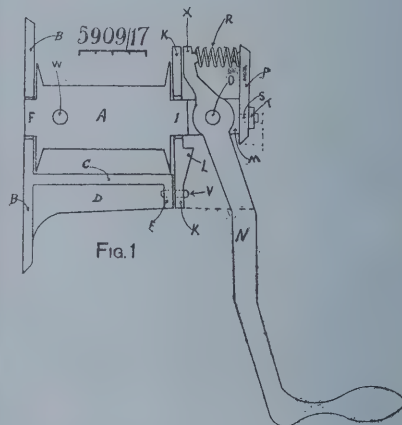
3 figures, 6 claims.

5909. 28 Nov. H. W. BLAKE, Vic.

Classes 59.3; 25.6.**Clothes-line Winch.**

To facilitate hoisting, a clothes-line is attached to a winding-drum mounted in a bracket frame **D** which has a number of ratchet teeth **L** formed on the outer bearing plate **K**.

The handle **N** is pivoted on a squared part of the drum spindle, and has an extension **X** which is forced by a spring **R** into engagement with the teeth **L**.



6 figures, 2 claims.

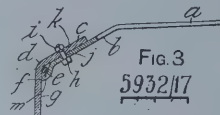
5932. 30 Nov. JAMES MARTIN AND COMPANY LIMITED, *assignee of* J. F. MCNEILL, *act. inv.*, New South Wales.

Class 32.5.**Harvester Comb.**

To prevent the displacement of the comb fingers by the reciprocations of the knives in reaper-thrashers, &c., the finger **a** is formed with a spring portion **e** which, when bolted in position, is forced against the flange **g** of the comb bar **d**.

A round bar **m** may be interposed between the part **e** and the angle of the comb bar, and the portion **b** may be downwardly curved to form a spring which is drawn flat by the bolt.

In machines with a flat comb bar, the rear ends of the fingers may be inserted in a slot, or holes, formed in the comb bar.



5 figures, 8 claims.

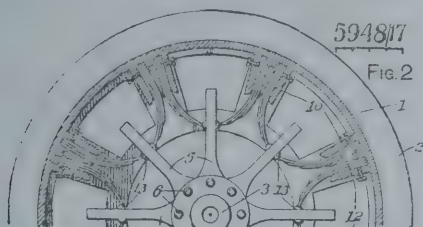
Illustrated Notes—continued.

5948. 3 Dec. J. JOHNSON, Hawaii.

Class 97.6.

Resilient Wheel.

A vehicle wheel, in which the spokes 5 are located between guide rings attached to the rim 1, and slide between shoes 13 on the ends of the leaf springs 12, while the rim is fitted with a solid or cushion rubber tyre 2.



4 figures, 2 claims.

5966. 5 Dec. A. F. SPAWN, California, United States of America.

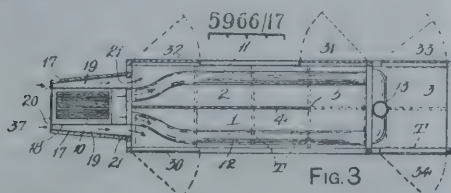
Class 17.5.

Drying Oven.

To dry alimentary substances, roller supported perforated trays, positioned above heating flues 11, 12, are moved through a partially divided oven 1, 2, which is provided with charging, changing and discharging doors, 30, 31, 32, respectively.

Fresh air to eliminate excess moisture is admitted through heating pipes in the top of a furnace 10 and is withdrawn through top exits. An auxiliary drying chamber 3 is provided adjacent to a vertical heating flue 13.

In a modification, the furnace flues 11, 12, 13 and the fresh-air pipes are dispensed with and the hot air is delivered from a blast furnace into an additional chamber and thence through a perforated partition into the drying chambers.



7 figures, 10 claims.

5974. 6 Dec. W. DEVINE, N.S.W.

Class 87.1.

Fly-blow Specific.

A mixture, for external application to sheep, consisting of 2 ozs. of borax, 1 lb. of lime, 1 lb. of resin, and 3 lb. of washing soda mixed with water, and 2 lb. of lard and 5 lb. of tallow to which is added 2 ozs. of arsenic solution, $\frac{1}{2}$ oz. of extract of eucalyptus and $\frac{1}{2}$ oz. of liquid disinfectant.

The arsenic solution is made by dissolving 6 ozs. of arsenic in 1 gallon of water, and for use as a spray 1 lb. of the mixture is dissolved in 4 gallons of water.

No drawing, 5 claims.

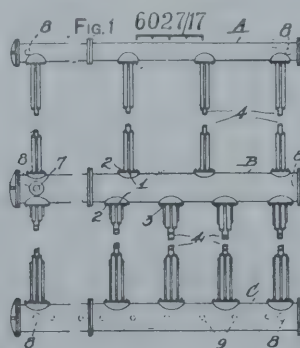
6027. 13 Dec. S. DRYSDALE, Tas.

Class 80.1.

Timber Drier.

A process for drying timber, in which a radiator has parallel cylindrical headers connected by clusters of tubes to outer headers.

The timber is run into a chamber for two or three weeks, steam is admitted through the pipe 7, delivered into the header B, and continuously maintained at a low pressure; the temperature of the chamber being regulated by valves. A series of spraying cocks or jets 9 may be provided.



3 figures, 6 claims.

Illustrated Notes—continued.**6006.** 12 Dec. D. FISHER, N. Zealand.**Classes 18.3; 48.1.****Pulp Composition.**

A composition for moulded articles, building sheets, and the like, in which Portland cement is mixed with paper, bichromate of potash and water.

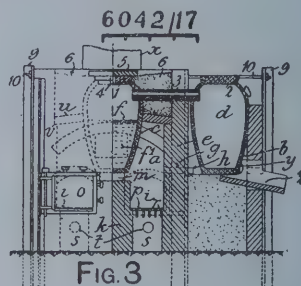
To make moulded articles, two parts of Portland cement are mixed with one part of paper, reduced to small particles, potash and water being added; but in making boards only one part of Portland cement is used.

The bichromate of potash may be omitted, and plaster of paris may be used instead of cement.

No drawing, 5 claims.

The liquid metal is delivered through the taphole *y* and gutter *z* into moulds.

In a modification, the condensing crucible *d* and passages *g* are dispensed with, and the condensing chambers *b* provided with inclined floors leading to tapholes.

**FIG. 3**

7 figures, 6 claims.

6042. 14 Dec. G. C. FRICKER, Eng.

Date applied for under International or Intercolonial Arrangements, 29th Nov., 1916, Great Britain, No. 17,138/16.

Classes 15.6; 16.2.**Zinc Distillation.**

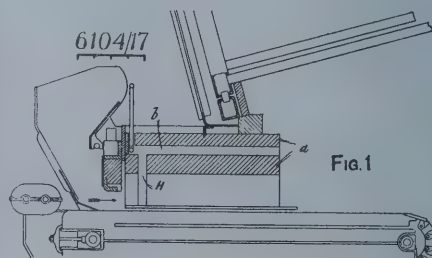
To refine zinc by distillation, it is passed through an inert refractory filter, as coke or pieces of fire-clay floating upon and covering the molten charge of impure zinc in crucibles. The resultant purified vapours are condensed at a temperature just above the melting point of zinc.

The distilling crucibles *c* within the distilling chamber *a*, containing the metal to be purified, are provided with a floating filter *f* consisting of pieces of dry coke or burnt fire-clay. The purified vapours pass through plumbago tubes *3* to the condensing crucibles *d* within the condensing chamber *b*, which is heated by gases passing from chamber *a* through passages *g* in the vertical wall *e*.

6104. 20 Dec. W. STONE, Victoria.**Class 17.7.****Boiler Furnace.**

To promote the combustion of low grade coal, the volatile constituents are drawn up the passage *H* by an ejector effect caused by forcing air and steam into the forward end of a passage *b* formed in the furnace arch.

Intense combustion of the gases results and the arch attains a high temperature, while the formation of smoke is prevented.

**FIG. 1**

2 figures, 3 claims.

Illustrated Notes—continued.**6092.** 19 Dec. R. JOPP and A. L. HAY, New Zealand.**Class 38.85.****Fumigating Rabbits.**

To destroy rabbits, coal gas or smoke, produced by forcing air from a bellows 3 and nozzle 13a through coal refuse on the fire-grate 18 of a generating chamber 15, is forced into the burners.

A non-return valve 11 and a release valve 14 are provided, and the gas supply pipe 21 is connected to the generator by a universal joint 20.

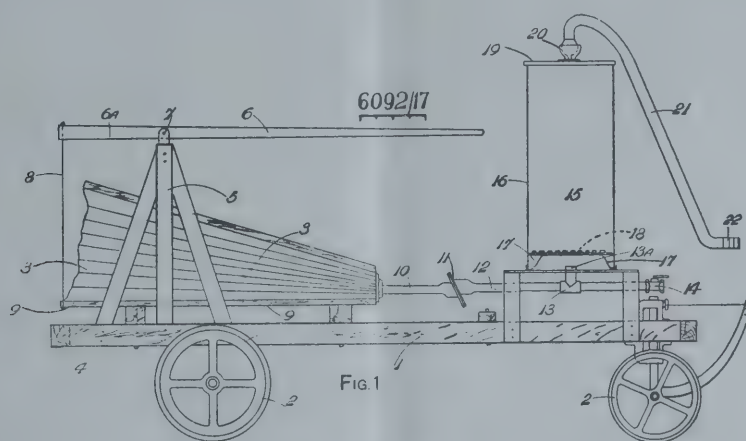


FIG. 1

1 figure, 3 claims.

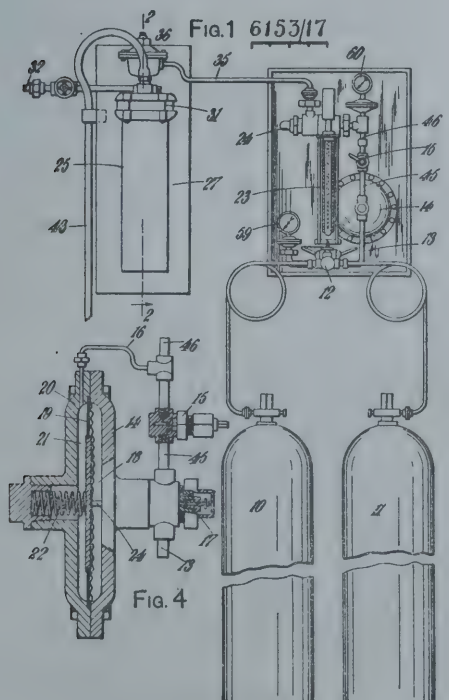


FIG. 4

6153. 29. Dec. C. F. WALLACE and M. F. TIERNAN, New York, U.S.A.**Classes 83.1; 86.7; 61.7.****Treatment of Water with Chlorine.**

To regulate the flow of gas for purifying water, by maintaining a constant difference in pressure in the gas across an adjustable control valve 15, independently of variations in the static pressure, the opposite sides of a spring-held diaphragm 19 are connected to the gas pipe on the high and low pressure sides 45 and 46 of the valve 15, so as to operate a preliminary control valve 17 when the difference in pressure tends to become too high.

The water inlet to the absorption chamber is provided with a spiral spreader.

6 figures, 6 claims.

Illustrated Notes—continued.

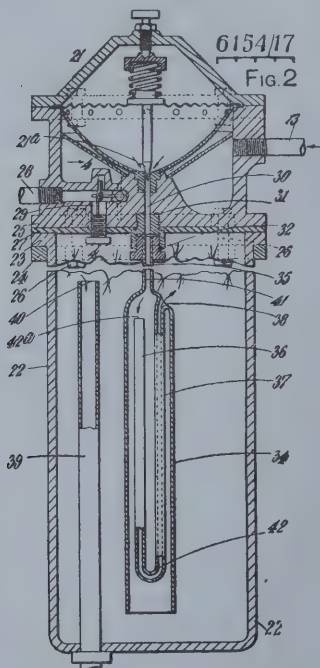
6154. 29 Dec. C. F. WALLACE and M. F. TIERNAN, New York, U.S.A.

Classes 83.1; 86.7; 61.7.

Gas Absorption.

To indicate the rate of supply of chlorine, or other gas, to a glass absorption chamber 22, containing the liquid, it is passed through an inverted siphon 36-37 in a glass bell 34, so that the pulsations of the liquid column may be observed as it is forced down to the point 42 and rises to the level 42a on release of the gas through the tube 37 to the dissolving chamber.

The gas is delivered from a chlorine cylinder through flexible tubing to a differential pressure reducing device and passes on through the pipe 13 to the gas absorber, which is fitted with a back pressure valve device 21. The chlorine gas then enters the passage 30 through the back pressure valve 21a. The pulsometer is always submerged in the water to a point 41.



4 figures, 6 claims.

6152. 29 Dec. C. F. WALLACE and M. F. TIERNAN, New York, U.S.A.

Classes 83.1; 86.7; 61.7.

Water Purification.

Treating water or sewage with a gas, such as chlorine, by an apparatus in which the flow

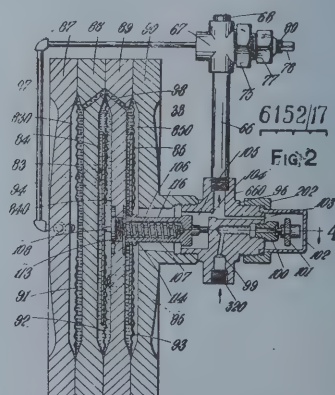
of gas is regulated proportionately to the flow of liquid to be treated, independently of variations in pressure and temperature conditions.

The gas tanks are connected to a three-way valve controlled by an electro-magnet, so that they are connected in turn to the pipe 320 when the pointer of the pressure gauge falls to a predetermined point completing the magnet circuit and simultaneously operating an alarm. The gas then passes through a needle valve 101 to the outer side of the diaphragm 85 and through the control valve 67, whence it passes at reduced pressure to the outer side of the diaphragm 91.

Chambers 84 and 840 are respectively connected to the barrel and neck of a Venturi tube on the water supply pipe, so that increased flow of water operates the diaphragm 92 to open the valve 101 and increase the flow of gas. The chambers 83 and 850 are water-filled and connected at 98, so that the diaphragms 91, 93 act together, and when the flow of water decreases the three diaphragms are forced over by the gas pressure to partially close the valve 101 and so reduce the flow of gas. The gas is supplied to the flowing water through a diffuser.

In a modification, the automatic device is controlled by a float whose upward pressure is determined by the head of water passing over a weir.

In another modification, a float-operated diaphragm communicates pressure through a fluid to the chamber 84, whilst in a further modification, a duplicate pumping system is employed with a Venturi fitting in one water circuit only.



15 figures, 9 claims.

Illustrated Notes—continued.

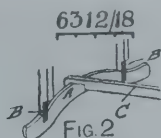
1918.

6312. 21 Jan. J. LAURIE, Queensland.

Classes 45.1; 45.2.

Convertible Rocking Chair or Cot.

To convert a rocking chair or the like into a rigid one, a reversible rocking member **A** is hinged to the legs at **B** and rigidly held by a slotted distance-piece **C**.



2 figures, 1 claim.

6385. 29 Jan. G. HELPS, England.

Classes 21.4; 21.1; 23.7.

Gas Mixture.

To produce complete combustion with a coneless flame, coal gas or other gas, having a high hydrocarbon content and a calorific value of 450–500 B.T.U. per cubic foot, is mixed with a diluent, such as blue water gas, air, nitrogen, producer or Mond gas, producing a gas mixture having a calorific value of 250–400 B.T.U. per cubic foot, when it reaches the burner nipple.

No drawing, 3 claims.

6418. 1 Feb. G. JOHNSON, Victoria.

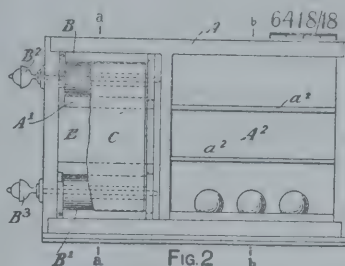
Class 53.6.

Billiard Marker.

To record receipts and the number and kind of games played, paper **C** is carried by a spring-pressed spool **B'** and a spool **B**, which is provided with a non-return ratchet. A flat writing plate **E** is arranged under the paper, which is exposed through an opening in the locked door.

C.18843.—2

A second compartment **A²** has shelves **a²** to hold billiard balls, &c., while the door is furnished with a slate panel.



6 figures, 3 claims.

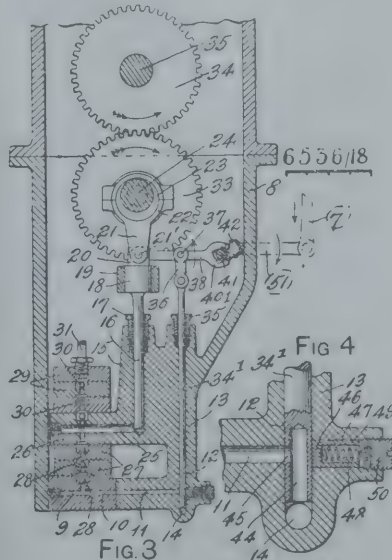
6536. 14 Feb. A. WINTON, Ohio, United States of America.

Class 66.6.

Internal Combustion Motor.

To regulate the fuel supply, slide valves **44** are mounted on cut-off rods **34¹** actuated by the fuel pumps **16** and controlled by the governor through a crank **42** and a lever **51**.

Fuel from a common supply pipe **14** passes through each port **45**, passages **11**, **10**, and valves **28**, to the chamber **25** and pump cylinder, whence it is discharged through valves **30** to the corresponding engine cylinder.



4 figures, 8 claims.

Illustrated Notes—continued.**6538.** 14 Feb. B. E. ELDRED, New York, United States of America.

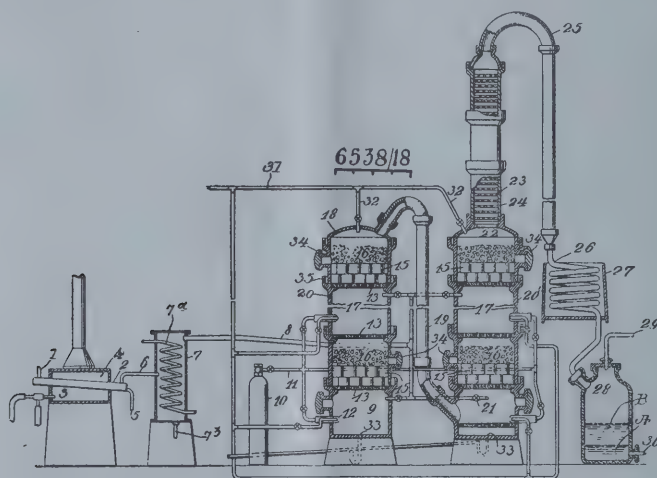
Date applied for under International or Intercolonial Arrangements, 8th Feb., 1917, United States of America, Serial No. 147,461/17.

Classes 09.2; 09.1.**Manufacturing Chlorhydrins.**

To prepare chlorhydrins from gaseous olefins, steam and chlorine are passed into olefin gases, prepared by gasifying oil by a burner **3**.

The oil gas is cooled and freed from vapours in a chamber **7** and passes through a pipe **8** to successive towers **20**, **20¹**, into which chlorine and steam are passed by pipes **11** and **31** respectively. The towers **20**, **20¹** are provided with staggered annuli **15** and granular layers of manganese dioxide or broken glass

and the like **16**. Hydrochloric acid is formed and, if manganese dioxide is used, the acid is converted to water and chlorine, while the manganese chloride formed is dissolved in water and drains off at **33**. The gases pass through a reflux condenser **23** and condensed liquid drains back to the sub-tower **20¹**, while a low boiling mixture passes through **25** to a condenser **26** and the condensates form in **23** a layer of condensed chlorhydrin **A** and its saturated solution **B**.



1 figure, 14 claims.

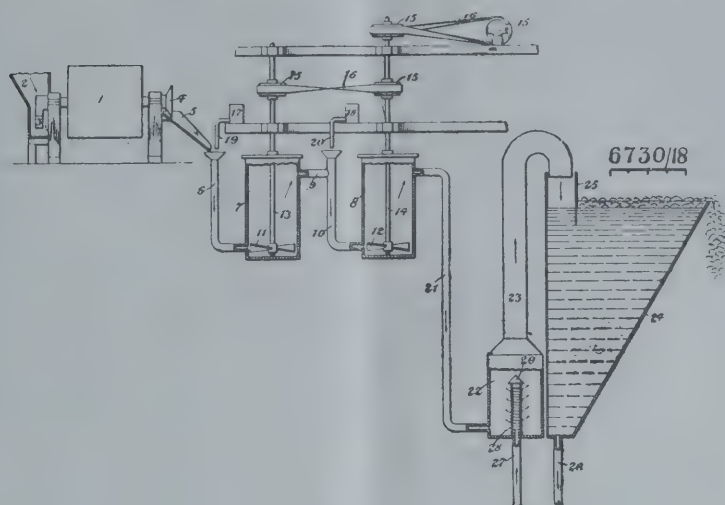
6730. 7 Mar. J. T. TERRY, jun., Tennessee, United States of America.**Class 12.5.****Ore Flotation.**

To render iron sulphide immune to flotation during the concentration of mixed sulphides by agitation aeration froth flotation, the crushed ore is successively agitated with a solution of lime and sodium thiosulphate in ball-mill **1**,

with ammoniacal solution in air-tight drum **7**, and with a frothing agent in air-tight drum **8**. It is then aerated in chamber **22** prior to separation of the float concentrate in spitzkasten **24**.

[Illustration next page.]

Illustrated Notes—continued.



1 figure, 9 claims.

6549. 15 Feb. A. HUNN, Minnesota, United States of America.

Classes 17.5; 34.3; 11.6.

Grain Drying Chamber.

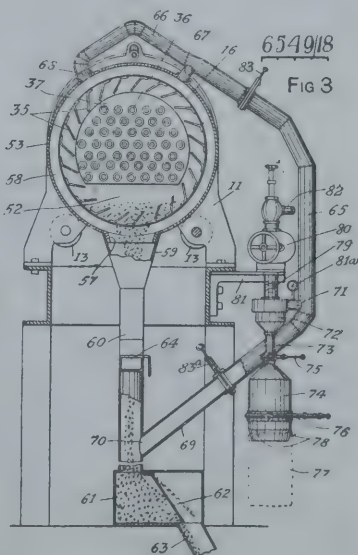
To dry grain, meal, or other granular substances, the material is fed into a rotary drum fitted with internal inclined baffles, which are adapted to pour the grain over a nest of steam pipes, carried within the rotary drum by the ends of a fixed external casing.

The material is delivered to the rotating drum 16 from an air-tight shoot with an adjustable feed valve and air inlets. The interior of the drum is heated by steam pipes arranged concentrically within the pipes 36, which return the steam to an exhaust chamber. The blower 80 draws the vapour from the stationary chamber 58 through the pipe 66 and branch 71 to the centrifugal air cleaner 72, the valves 83 and 83a being regulated to produce a partial vacuum in the drum.

Fine particles of grain are separated from the vapour and air in the centrifugal cleaners 72 and delivered into sacks 77 through the chamber 74 and valve 76. The shoot 60

delivers the dried grain into a box 61, which is provided with a swing door 62.

In a modification, the exhaust pipe 66 is attached to an offset pocket on the chamber 58, the pocket being fitted with a vacuum gauge.



6 figures, 17 claims,

Illustrated Notes—continued.

6748. 7 Mar. J. C. THOMAS, New York, United States of America.

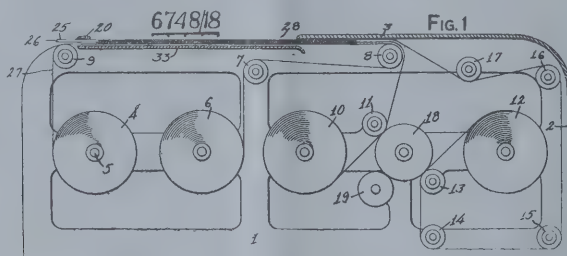
Class 55.5.

Manifold Strip Printer.

A machine which prints and delivers paper strips from the rollers 10 and 12 to the writing-tablet 33 where entries may be made, after which the strips 25 and 26 are pulled forward and torn off against the knife bar 20.

Carbon paper is interposed between the

strips above the tablet, and a record strip is wound from the roller 6 over the tablet and on to the roller 4. Printed matter is impressed on the upper surface of the strips 25 and 26 by a type roller 18 operating against a felt inking-roller 19.



3 figures, 6 claims.

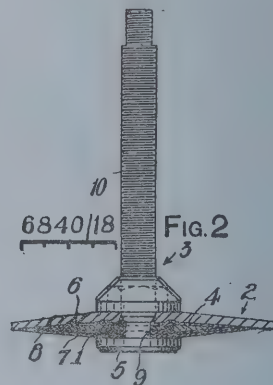
6840. 18 Mar. DUNLOP RUBBER COMPANY OF AUSTRALASIA LIMITED, assignee of S. BEARD, act. inv., Victoria.

Class 97.85.

Pneumatic Tyre Valve.

To prevent the valve from being pulled out of a pneumatic tube or the like, a reinforcing ring of smaller diameter than the base flange of the valve is embedded in the patch.

The metal or cord ring 1 is embedded within the doubled back edge of a centrally apertured piece of fabric, which is enclosed between two larger disks of fabric 4 and secured by the layers of rubber 6, 7 and 8, forming the valve patch.



3 figures, 7 claims.

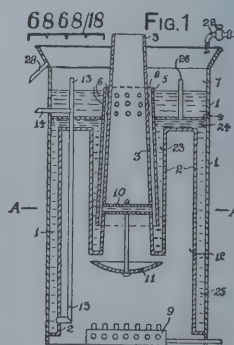
6868. 22 Mar. W. J. DICKER, N.Z.

Class 24.5.

Water Heater.

To prevent emptying, when the water supply is cut off, the discharge pipe 13-14 is upwardly extended. Heating is facilitated by downward passage of the water between the conical flue 3 and the sleeve 5 to a water-jacket 24-25 enclosing the heating chamber. Steam escapes 13, 26 are provided.

In a modification, the conical sleeve 5 is carried by a removable reservoir supported on the top of the apparatus.



4 figures, 8 claims.

Illustrated Notes—continued.

6860. 21 Mar. W. H. GRINSTED, Eng.

Date applied for under International or Intercolonial Arrangements, 13th Mar., 1917, Great Britain, No. 3652/17.

Classes 05.6; 02.6.

Telephone Current Amplifier.

To prevent reaction between the output and input circuits of a relay, the lines are linked with the relay through local circuits which are balanced independently of the electrical condition of the lines themselves.

Four transformers **A**, **B**, **C** and **D**, connecting the input and output circuits with the lines 1 and 2, are so designed that the action of the winding **O**¹ on the winding **S**¹ induces in the winding **I**¹ of the input circuit an E.M.F., which is equal and opposite to the E.M.F. induced in the winding **I**² by the action of **O**² upon **S**².

In a modification, two transformers are each provided with an input and an output winding inductively associated with each line, the input windings being connected in series and the output windings in parallel.

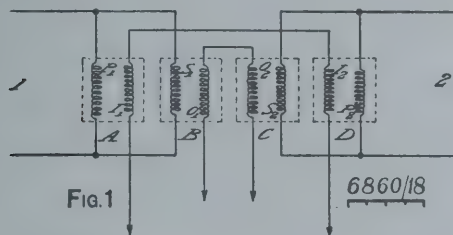


FIG.1

6860/18

2 figures, 4 claims.

6869. 22 Mar. I. W. CEDERBERG, *act. inv.*, H. M. BÄCKSTRÖM and G. A. KYHLBERGER, *assignees*, Sweden.

Classes 08.9; 08.5.

Production of Ammonia.

To synthesize ammonia, the process is carried out at a temperature below 400°C. and under high pressure. The catalysts used are metals belonging to the second sub-groups I-V of the periodic system, i.e., copper to bismuth, or their hydrides or nitrides, or substances forming these products in the contact furnace.

No drawing, 4 claims.

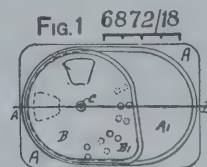
6872. 22 Mar. T. DAWSON & SONS LIMITED, *assignee of J. L. CLARK, act. inv.*, Illinois, United States of America.

Classes 57.5; 76.8.

Sprinkling Cap for Containers.

To regulate the supply of pepper, salt or other fine material in a single stream or in a fine shower, a plate **B**, **B**¹, containing one large hole and a number of small ones, is pivotally attached to a depressed portion **A**¹ of the canister top **A**, which is correspondingly apertured.

In one modification, the plate **B** is a plain circular disk, while in another it is slidable on the depressed portion.



9 figures, 4 claims.

6873. 22 Mar. T. DAWSON & SONS LIMITED, *assignee of D. M. DAWSON, act. inv.*, South Australia.

Class 24.5.

Water Heater.

A water heater, in which a copper coil **H** is connected to annular water-boxes **J** and **K** and thence to supply and outlet pipes. The cast iron casing **A** is made in two halves fastened together and has a cap **B**.

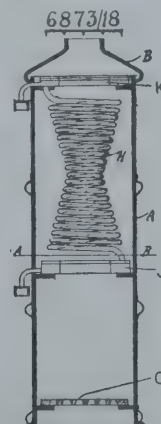


FIG.2

6 figures, 3 claims.

Illustrated Notes—continued.

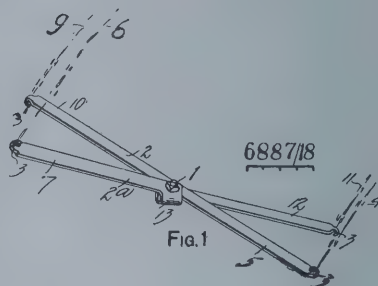
6887. 25 Mar. H. J. VINNICOMBE,
Victoria.

Classes 30.4; 93.7.

Draught Equalizer.

To balance the pull from animals harnessed to agricultural implements, &c., in tandem, a pair of swingle-trees 2 and 2a are connected together by a central pivot 1, and one trace chain of each tree is connected to each animal.

3 figures, 5 claims.



7101. 19 Apr. W. E. KIMBER, England.

Date applied for under International or Intercolonial Arrangements, 14th Nov., 1916,
Great Britain, No. 108,255.

Class 59.9.

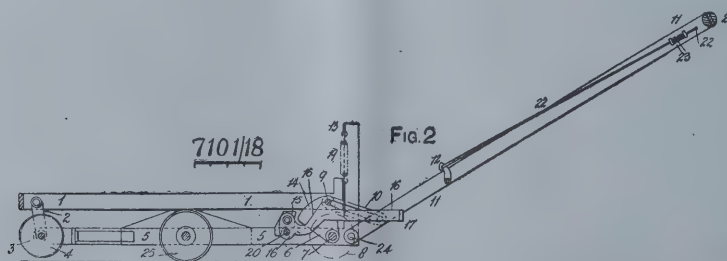
Elevating Truck.

To facilitate the raising of goods on a hand-truck, the platform 1 is mounted on links 2 and 6 and has a transverse bar 9 connected by slotted links 10 to the handle 11, which is provided with a spring latch 12 adapted to engage the extension 13 to lock the handle in the vertical position.

When the platform is elevated the bar 9 engages with notches in the levers 16, which

are raised by a spring 19 and fitted with a treadle 17. A depression of the treadle releases the bar 9 and brings the brake shoes 15 into engagement with the curved surfaces 14 to check the descent of the load.

In a modification, the slotted links 10 are provided with notched upper surfaces to engage the bar 9 in different positions, and additional notches are formed in the levers 16.



3 figures, 4 claims,

Illustrated Notes—continued.

7157. 25 Apr. H. B. MILES, Victoria.

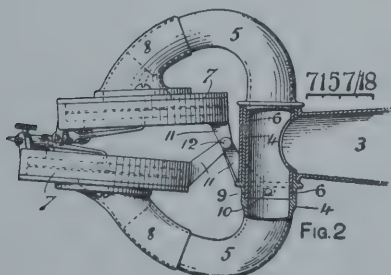
Class 01.7.

Talking Machine Reproducer.

To maintain the needles fairly in the record groove, and the diaphragms in a substantially tangential position, two sound-boxes, having their diaphragms facing each other and their styluses operating in the same groove, are mounted on curved goose-necks hinged to a common tone-arm.

The sound-boxes 7 are provided with pipes 8 sliding on curved goose-necks 5 which rock vertically in a T-piece on the tone-arm 3. The goose-necks are connected together by a slot 9 and pin 10 which permit slight independent rotary movement but enables both the styluses to be lifted from the sound-groove at the same time.

The styluses are spaced in the record-groove less than $\frac{3}{4}$ of an inch apart, while the sound-boxes are set at an angle of four degrees with the tone-arm axis and are provided with brackets 11 connected loosely by a hinged pin 12. If desired a single sound-box may be used.



2 figures, 14 claims.

7301. 9 May. JAMES HOWDEN & COMPANY LIMITED, Scotland, assignee of W. H. HOWDEN, act. inv.

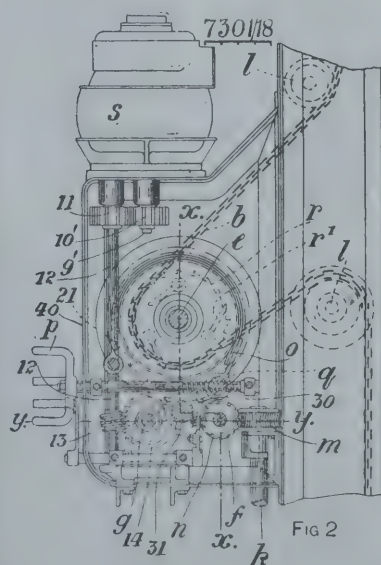
Classes 91.4; 59.3.

Ship's Davit.

To enable a single davit to be operated by hand or power, it is provided with winding gear having clutch mechanism for throwing either method into operation and for changing from hoisting to sluing.

The gear casing 40 is attached to the davit and carries the spindle e of the winding-wheel, which can be actuated by a handle on the shaft e, or by planetary gearing meshing with the pinion 30. A clutch may be operated to couple the pinion 30 to the hand-operated shaft f for slow hoisting, while the shaft f may be coupled by a second clutch to the worm-wheel m for sluing.

In operating by power, the motor clutch shaft g is thrown into gear and drives the shaft f, the motion of which is transmitted as above for either hoisting or sluing.



6 figures, 4 claims.

Illustrated Notes—continued

7401. 16 May. C. F. L. KING, Eng.

Class 66.5.

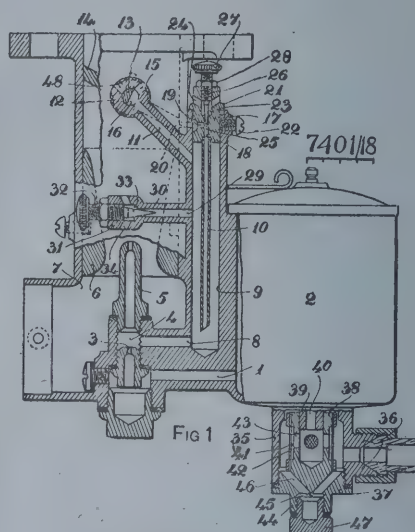
Carburettor.

To maintain the richness of the fuel mixture correct at all speeds in a carburettor of the type in which a submerged fuel nozzle 3 is situated beneath the diffuser nozzle 5, an air admission valve 15, 16 is provided on one end of the throttle valve spindle 13 and acts in conjunction with a hand-set needle valve 33 to supply air to the nozzle 3 and so regulate the effective suction on the fuel as the throttle valve 14 opens or closes.

A hand-operated needle valve 25 regulates the richness of the mixture supplied to the pilot-jet 20.

Solid matter is filtered from the fuel before it enters the float chamber 2 by a filter gauze 42 in a chamber 35 cast on the under-side of the float chamber and having a cleaning plug 47.

In a modification, the air inlet valves are spring-controlled.



8 figures, 5 claims.

Commonwealth Specifications.

The following Specifications are now on sale :—

1904-10.

1 to 20,337, Vols. 1 to 102, complete with title pages, &c.

1911-16.

1 to 7599, Vols. 103 to 140, complete with title pages, &c.

7600 to 7799, Vol. 141, incomplete.

7800 to 8599, Vols. 142 to 145, complete with title pages, &c.

8600 to 18,243, and all subsequent accepted Specifications.

The following Specifications, acceptance of which was advertised in *Official Journal* of the 26th November, 1918, are now printed and on sale :—

1917.

3919. Western Electric Co. Ltd., Deakin, & Polinkowsky.

4428. Aktiebolaget Ljungströms Ångturbin (Ljungström & Ljungström).

4891. Nicholas.

5291. Weber.

5326. Page.

5633. Manuel & Woodley.

5659. The British Aluminium Co. Ltd. (Bailey & Foster).

5715. Sandow.

5743. King.

5746. Robertson & Shierlaw.

5761. Fulton & Cullen (Cullen).

5770. Alexander.

5774. James Martin & Co. Ltd. (McNeill).

5776. Morison.

5851. Taylor & Holt.

5880. Rogers.

5984. Brandt (Warner).

6134. White.

6155. Draper.

Commonwealth Specifications—continued.**1918.**

6437. Jensen.	6607. Henderson.
6439. Jensen.	6612. Rudberg.
6551. Loewenbach.	6736. Ryan (Bartow).
6588. Nicholls, Nicholls, & Bennett.	6750. Gay.
6593. Gray.	6793. Hackett.
6601. J. Tylor & Sons Ltd., Gaunt, & Brookfield.	

Further particulars will be found in the Illustrated Notes, pages 1123 to 1132 of Vol. 28.

A list of Patent Offices and Libraries at which Printed Specifications are placed for *free* public inspection is given with the first list of each quarter.

Complete sets of Printed Specifications may be obtained from the Government Printer, Melbourne, at 4d. per copy delivered over the counter. Specifications relating to one Group of manufacture, in order as issued, or such of the Specifications (in one Group) as may be selected from those already published, until 80 copies have been supplied, may be obtained on depositing £2. Parcels of 30 Specifications may be purchased at £1. Postage should be added to cheques if parcels are desired to be forwarded by mail. Single copies of Specifications, 1s. per copy, post free.

Printed Specifications are on sale at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart.

Applications for Letters Patent for the period 1904 to 1910 were numbered from 1 to 20,337; for the period 1911 to 1915 from 1 to 18,302; a new series of numbers was commenced on the 1st January, 1916. To avoid confusion when purchasing Specifications, the **number, year, and name** of applicant for Letters Patent should be quoted.

Letters Patent Sealed.

Applications for enlargement of the time for payment of the renewal fee may be made on Form P.

The page and year quoted in last column refer to the Journal in which the notice of acceptance of Complete Specification was published.

Names of actual inventors, communicators, assignors, &c., who are not grantees, are added in parentheses after the name of the grantee.

No.	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1917.				
<i>28th November, 1918.</i>				
4668	21 July	James Martin & Co. Ltd. (J. F. McNeill)	Horse hay rakes	695/18
4725	28 July	W. R. Oysten	Musical instrument attachments ...	717/18
4737	30 July	J. Ferrier	Internal combustion engines ...	717/18
4762	2 Aug.	W. D. Bailey	Axles and axle boxes	1243/17
5041	4 Sept.	P. Olsen	Salting meat	695/18
5166	14 Sept.	J. H. Johns	Spouting stays	794/18
5473	12 Oct.	G. G. Turri (James Howden & Co. Ltd.—J. H. Hume)	Furnace fronts	516/18
6039	14 Dec.	A. T. Madden (H. Alfson)	Building and launching floating craft	769/18
<i>30th November, 1918.</i>				
3922	10 May	Kingloc Ltd. (J. J. Duffy)	Preventing fly-blow on sheep ...	769/18
4732	30 July	W. Leslie	Potato-digging machines	743/18

Letters Patent Sealed—continued.

No.	Date of Patent.	Name of Grantee.	Abbreviated Title.	Page and Year.
1915. <i>3rd December, 1918.</i>				
17,068	9 Aug.	Marie V. Garin, <i>née</i> Bailly (M. Perreur-Lloyd)	Production of zinc, &c. ...	794/18
1917.				
3848	3 May	J. W. Gannon	Goloshes ...	365/18
3881	16 May	Annie I. Calvert	Milk strainer ...	794/18
4087	23 May	W. R. Hume	Plastic cement ...	794/18
4785	3 Aug.	A. G. P. Wiingaard	Savings clock ...	743/18
4883	13 Aug.	Octavia F. Newth (B. Newth)	Feeding blast furnaces ...	794/18
5069	5 Sept.	C. W. LePlastrier (J. A. Ulberg)	Rotary engines ...	794/18
5310	28 Sept.	W. R. Jones	Repairing metallic hollowware ...	769/18
5558	22 Oct.	W. Daly	Securing stamp tappets ...	743/18
5632	31 Oct.	H. A. Nicholson & E. A. Craig	Steam generators ...	794/18
1916.				
5652	2 Nov.	W. D. Fletcher	Endless track bands for vehicle wheels	794/18
5674	15 Nov.	W. D. Wood	Slag-pans ...	769/18
1917.				
5695	5 Nov.	G. Furuholmen	Stoves, &c. ...	794/18
5710	7 Nov.	Hydrometric Co. (G. S. Binckley)	Fluid meter ...	794/18
5755	13 Nov.	N. L. Forster	Collapsible refrigerating chest	794/18
5843	22 Nov.	B. G. C. Stephens	Electric irons ...	794/18
5977	7 Dec.	D. Macdougall	Fire-resisting cabinets	794/18
6142	22 Jan.	G. T. Macfarlane	Winches ...	794/18

Applications in respect of which Complete Specifications have been Accepted, but on which Letters Patent have not been Sealed.

Names in parentheses indicate actual inventors, &c., who are not applicants.

No.	Date of Application.	Name of Applicant.	Abbreviated Title.	Page and Year.
1917.				
3802	27 Apr.	T. C. McClelland	Joining up electrical conduits	106/18

Assignment Registered.**1914.**

12,002. "An improved mechanical adjuster for the brakes of electric and other car wheels."

Assignment of whole interest *by* Bertrand ANQUETIL *to*

NOYES BROS. (MELBOURNE) PROPRIETARY LIMITED. Registered 29th Nov., 1918.

Licences Registered.**1911.**

2791. "Improvements in or relating to the recovery of gold silver and copper by amalgamation."

Exclusive and irrevocable licence within the State of Western Australia to use, operate and work the processes and apparatus or any of them set out in and forming the subject of these Letters Patent for the unexpired term of the Letters Patent *granted by* Alfred ARGLES *to*

METAL RECOVERY COMPANY LIMITED. Registered 30th Nov., 1918.

1913.

10,604. "Improvements in apparatus for the treatment of ores or other material for recovery of the metals therein."

Exclusive and irrevocable licence within the State of Western Australia to use, operate and work the processes and apparatus or any of them set out in and forming the subject of these Letters Patent for the unexpired term of the Letters Patent *granted by* Alfred ARGLES *to*

METAL RECOVERY COMPANY LIMITED. Registered 30th Nov., 1918.

Renewal Fees Paid.

(Names in parentheses indicate original grantees.)

1911.

No.	Name.	Abbreviated Title.	Paid up to—
2321	McCay, C. E.	Conveying cargo	1st Sept., 1925
3216	Ridgway, M. E. H., & McColl, G. H.	Diverting water	29th Nov., 1925

Patents Void through Non-payment of Renewal Fees.

(Names in parentheses indicate original grantees.)

1910.

No.	Name.	Abbreviated Title.	Patent Ceased.
20,025	Stroh, S.	Metal seal	25th Nov., 1916
20,027	Hannon, J. M.	Men's braces	26th Nov., 1917
20,029	Siegwart, H.	Manufacture of hollow masts	28th Nov., 1917
20,034	Bridgman, T. E.	Motor-car wheels	8th Dec., 1916
20,040	Waters, E. N.	Superphosphate chamber	28th Nov., 1917
20,041	Tootell, C.	Preventing flies entering buildings	28th Nov., 1917
20,043	Ingersoll-Rand Co.	Mining machine	29th Nov., 1917

Patents Void through Non-payment of Renewal Fees—continued.

1910.

No.	Name.	Abbreviated Title.	Patent Ceased.
20,044	Ingersoll-Rand Co. ...	Mining machine ...	29th Nov., 1917
20,045	Ingersoll-Rand Co. ...	Mining machine ...	29th Nov., 1917
20,048	Turri, G. G. ...	Key-locks for auto-pianos ...	29th Nov., 1917
20,050	Billows, A. J. ...	Taps for jars ...	29th Nov., 1917
20,053	Pyzel, E. D. ...	Separation of contained products from crude paraffin	29th Nov., 1917
20,054	Spruson, W. J. ...	Axle-boxes of railway carriage ...	29th Nov., 1917
20,055	Martin, W. ...	Flower pot ...	29th Nov., 1917
20,057	Moss, J. I. ...	Kerosene tin cover ...	30th Nov., 1917
20,058	Ivor, B. ...	Carburettor ...	30th Nov., 1917
20,061	Kerozit Chemische Gesellschaft mit Beschränkter Haftung (Tanne, J., & Oberländer, G.)	Separating hydrocarbons from naphtha residues	30th Nov., 1917
20,062	Pickett, A. B., Dokkenwadel, F. G., & Jenkins, M. E.	Fertilizer mixers ...	30th Nov., 1917
20,063	American Spark Arrester Co.	Spark arrester ...	30th Nov., 1917
20,064	American Spark Arrester Co.	Spark arrester ...	30th Nov., 1917
20,067	The British United Shoe Machinery Co. of Australia Pty. Ltd. (United Shoe Machinery Co.)	Machine for inserting slugs ...	30th Nov., 1917
20,071	The British United Shoe Machinery Co. of Australia Pty. Ltd. (United Shoe Machinery Co.)	Cutting dies ...	30th Nov., 1917
20,072	The British United Shoe Machinery Co. of Australia Pty. Ltd. (United Shoe Machinery Co.)	Nail making machines ...	30th Nov., 1917
20,073	The British United Shoe Machinery Co. of Australia Pty. Ltd. (Waters, E. N.)	Burnishing machine ...	30th Nov., 1917
20,074	Dunlop, G. H. ...	Excavating machine ...	30th Nov., 1917
20,077	Bowman, E. ...	Telephone system ...	30th Nov., 1917
20,088	Bauert, W. H. ...	Railway signal mechanism ...	1st Dec., 1917
20,089	Reith, G. C., & Flade, G. ...	Coin selector ...	1st Dec., 1917
20,090	Giorgi, A. ...	Gas lamp ...	22nd Dec., 1916
20,091	O'Brien, D. J., & Catts, R. M.	Lamp ...	1st Dec., 1917
20,093	Rotary Excavator Ltd. (Christie, C.)	Crane ...	1st Dec., 1917
20,095	Bates, J. W. ...	Evaporating apparatus ...	1st Dec., 1917
20,097	Wiles-MacLeod Safety Aeroplane Syndicate Ltd. (Wiles, W. F. & F. W., & MacLeod, T.)	Aeroplane ...	1st Dec., 1917
20,098	Jackson, S. A. ...	Can carrier ...	1st Dec., 1917

GEORGE TOWNSEND,
Commissioner of Patents.

DEPARTMENT OF PATENTS.—PRICE LIST OF PUBLICATIONS.

Patents, Trade Marks, and Designs Acts are on sale at the Government Printing Offices in Sydney, Brisbane, Adelaide, Perth, and Hobart.

Printed Specifications of Inventions and Regulations under Patents, Trade Marks, and Designs Acts are on sale at the Trade Marks Sub-offices, at Commonwealth Bank Buildings, Sydney, and at the Customs Houses, Brisbane, Adelaide, Perth, and Hobart.

Publications in the following list are on sale at the Government Printing Office, Melbourne:—

	Price.		Price.
Patents Act 1903	8d.	Patents Act 1909	3d.
Patents Act 1906	3d.	Patents Act 1903-1909	1s.
Patents, Trade Marks and Designs Act 1914 (No. 15)			3d.
Patents, Trade Marks and Designs Act (No. 2) 1914 (No. 16)			3d.
Patents, Trade Marks and Designs Act 1915 (No. 8)			3d.
Patents Act (Partial Suspension) Act 1916 (No. 13)			3d.
Patents Regulations, 1912			1s. 6d.
Statutory Rules 1913, No. 310; 1914, Nos. 69, 174, 188; 1915, No. 267; 1916, Nos. 45, 66, 140, 161, 162, 220, 256; 1917, Nos. 22, 283; 1918, Nos. 36, 142			3d.
Commonwealth of Australia Gazettes—Patent Office Special Numbers.			
Nos. 34, 49, 52, 56, 60, 69, 72 of 1904; No. 2 of 1905			4d.
Classification of Manufactures and Word Index (edition of 1916, 280 pp.)			2s. 6d.
Library Classified Catalogue, including supplement (<i>post free</i>)			1s.
THE AUSTRALIAN OFFICIAL JOURNAL OF PATENTS (<i>post free</i>)—			
Weekly Numbers, published every Tuesday			6d.
Annual Subscription (including Volume of Statistics and Indexes) ..			25s.
Complete Annual Volumes—			

Journals.	Indexes.	Journals.	Indexes
...	Vol. 1, 1904	Vol. 14, 1911	Vol. 15, 1911
Vol. 2, 1905	Vol. 3, 1905	Vol. 16, 1912	Vol. 17, 1912
Vol. 4, 1906	Vol. 5, 1906	Vol. 18, 1913	Vol. 19, 1913
Vol. 6, 1907	Vol. 7, 1907	Vol. 20, 1914	Vol. 21, 1914
Vol. 8, 1908	Vol. 9, 1908	Vol. 22, 1915	Vol. 23, 1915
Vol. 10, 1909	Vol. 11, 1909	Vol. 24, 1916	Vol. 25, 1916
Vol. 12, 1910	Vol. 13, 1910	Vol. 26, 1917	Vol. 27, 1917

Vol. of Journal with corresponding Vol. of Indexes 25s.
Vols. of Indexes only may be obtained at 7s. 6d. each from Vol. 1 to Vol. 17, and at 10s. each from Vol. 19 onwards

PRINTED COPIES OF SPECIFICATIONS—

Single copies (including postage)	1s.
Parcels of 30 specifications (exclusive of postage)	20s.
Specifications of one Group as issued (up to 80 copies), subscription in advance (exclusive of postage)	40s.
Complete sets as issued (exclusive of postage) per copy	4d.
Average weight for parcels posted:—30 specifications, 1½ lbs.; 50, 3 lbs.; 100, 4 lbs.	

THE AUSTRALIAN OFFICIAL JOURNAL OF TRADE MARKS (*post free*)—

Weekly Numbers, published every Friday	...	...	each	6d.	
Annual Subscription (including Vol. of Name Index and Proceedings)	...	...	...	5s.	
Complete Annual Volumes—Vols. 1 to 12, Applications and Proceedings.					
Name Index and Proceedings, Commonwealth and State—					
1906-7; 1908; 1909; 1910; 1911; 1912	...	...	each	7s. 6d.	
1913; 1914; 1915; 1916; 1917	...	...	each	5s.	
Constituent Particulars of Trade Marks—					
Vol. 1, 1906-7	...	7s. 6d.	Vol. 6, 1913	...	7s. 6d.
Vol. 2, 1907-9	...	15s.	Vol. 7, 1914	...	7s. 6d.
Vol. 3, 1909-10	...	11s. 6d.	Vol. 8, 1915	...	7s. 6d.
Vol. 4, 1911	...	7s. 6d.	Vol. 9, 1916	...	7s. 6d.
Vol. 5, 1912	...	7s. 6d.	Vol. 10, 1917	...	7s. 6d.
Trade Marks Act 1905	...	8d.	Trade Marks Act 1905-1912	...	8d.
Trade Marks Rules—Statutory Rules 1913, No. 339	...	...	...	...	1s. 3d.
Statutory Rules 1914, Nos. 8, 175, 189; 1916, Nos. 64, 221; 1917, No. 291	...	...	...	each	3d.
Designs Act 1906	...	5d.	Designs Act 1912	...	3d.
Designs Rules—Statutory Rules 1907, No. 51	...	...	...	...	5d.
Statutory Rules 1913, No. 173; 1914, Nos. 176, 190; 1916, Nos. 65, 222	...	...	...	each	3d.
Designs Indexes—1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, and 1917	...	...	...	each	1s.

Application Forms according to the Schedules to the Patents Act 1903-1909, Trade Marks Act 1905-1912, Designs Act 1906-1912 and the Patents, Trade Marks and Designs Act 1914-1915, may be obtained on application at the Department of Patents, Second Floor, Railway Buildings, Flinders-street, Melbourne.

FEES.

	£	s.	d.		£	s.	d.
On filing application for patent ...	1	0	0	On application for restoration of lapsed patent ...	20	0	0
On acceptance of complete specification ...	2	0	0	On notice of opposition to application for restoration of lapsed patent ...	2	0	0
For preparation of patent for sealing ...	5	0	0	For duplicate of Letters Patent each ...	2	0	0
On the expiration of the seventh year of the period of the patent ...	5	0	0	On application for a compulsory licence. By person applying ...	5	0	0
On filing notice of opposition ...	2	0	0	On opposition to grant of compulsory licence. By opponent ...	3	0	0
On application for enlargement of time for lodging complete specification ...	1	0	0	On application to lodge further evidence under Regulation 141. By person making application ...	2	0	0
On application for extension of time under Regulation 31—				On hearing by Commissioner of application to lodge further evidence under Regulation 141. By applicant and by opponent respectively ...	1	0	0
Not exceeding one month ...	2	0	0	On offer to surrender a patent under section 86A ...	1	0	0
Not exceeding two months ...	4	0	0	On application to Court for extension of patent ...	10	0	0
Not exceeding three months ...	6	0	0	On entering caveat ...	5	0	0
On application for extension of time for acceptance of complete specification—				On application for entry of an Assignment, Transmission, Agreement, Licence, or Extension of Patent ...	1	0	0
Not exceeding one month ...	1	0	0	On request to be informed of any application for the entry in the Register of the name of a person by assignment or other document affecting the proprietorship of a patent ...	0	10	0
Not exceeding two months ...	2	0	0	On application to alter name or address in Register ...	0	10	0
Not exceeding three months ...	3	0	0	On application to correct clerical error in Register ...	0	10	0
On appeal from Commissioner to Law Officer ...	3	0	0	On application to correct clerical error. Before sealing ...	0	5	0
On application to lodge further evidence in Opposition Cases. By person making application ...	2	0	0	On application to correct clerical error. After sealing ...	0	10	0
On hearing by Commissioner of application to lodge further evidence in Opposition Cases. By applicant and by opponent respectively ...	1	0	0	Office copies of documents, for every 100 words, but never less than One shilling ...	0	0	0
On hearing by Commissioner in Opposition Cases. By applicant and by opponent respectively ...	1	0	0	For examination of copies not made in office, for every 100 words, but never less than One shilling ...	0	0	3
On application to amend specification. Before sealing ...	2	0	0	For office copies of drawing, sun prints ... per sheet	0	1	0
On application to amend specification after lodgment of notice of opposition ...	3	0	0	For office copies of drawings (according to agreement).			
On application to amend specification. After sealing ...	3	0	0	For examination of drawings or sun prints not made in the office, but never less than One shilling per sheet	0	0	0
On lodging notice of opposition to application to amend ...	2	0	0	For certificate of Commissioner under section 28 of the Act or under Regulation 130 ...	0	5	0
On hearing by Commissioner of application to amend. By applicant and by opponent respectively ...	1	0	0	Search or inspection fee each ...	0	1	0
On application to amend specification during action for infringement or proceeding for revocation ...	3	0	0	Annual search fee ...	5	0	0
On request to amend any document under Regulation 147 ...	2	0	0	Examination entry fee by candidate for Patent Attorney's examination ...	2	0	0
On application for enlargement of time for sealing a patent—				Fee for registration as a Patent Attorney ...	5	0	0
Not exceeding one month ...	2	0	0	Annual fee payable by a Patent Attorney ...	2	0	0
Not exceeding two months ...	4	0	0	Additional fee for restoration of Patent Attorney's name to Register ...	0	10	0
Not exceeding three months ...	6	0	0				
On enlargement of time for payment of renewal fees—							
Not exceeding three months ...	2	0	0				
Not exceeding four months ...	2	13	4				
Not exceeding five months ...	3	6	8				
Not exceeding six months ...	4	0	0				
Not exceeding seven months ...	4	13	4				
Not exceeding eight months ...	5	6	8				
Not exceeding nine months ...	6	0	0				
Not exceeding ten months ...	6	13	4				
Not exceeding eleven months ...	7	6	8				
Not exceeding twelve months ...	8	0	0				

Patents (Temporary) Regulations 1914.—Fee.

On application for the avoidance or suspension of patent rights or licence ...	2	0	0
--	---	---	---

Fees must be tendered in cash or postal note or in money order payable to the Commissioner of Patents, Melbourne, to whom all communications must be addressed.